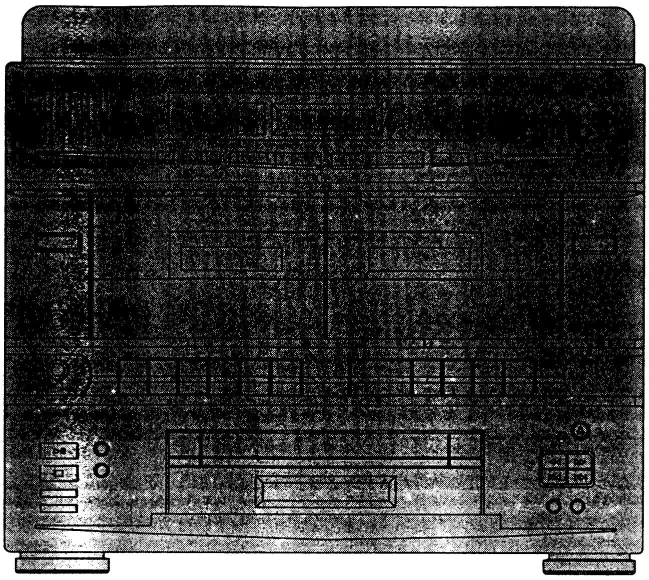
SERVICE MANUAL
MODEL: SCM-6550

MUSIC CENTER WITH A COMPACT DISC PLAYER



GENERAL SECTION

Power Consumption	: 30W
Dimension	: 350(W)x362(H)x291(D)mm
Weight (NET)	: 5.5Kg
Power source	: See the label rating

RADIO SECTION

AM BAND

Frequency Range	: 522KHz~1611KHz
Usable Sensitivity	: 350μV
Signal to Noise Ratio	: 35dB

FM BAND

Frequency Range	: 87.5MHz~108MHz
Usable Sensitivity	: 6μV
Signal to Noise Ratio	: 50dB
Total Harmonic Distortion	: 1.5%
Separation	: 25dB

TAPE SECTION (RECORD/PLAYBACK)

Frequency Range	: 125Hz~8KHz
Signal to Noise Ratio	: 45dB
Separation	: 35dB
Total Harmonic Distortion	: 2%
Erasing Effect	: 60dB
Wow & Flutter	: 0.3%

COMPACT DISC PLAYER SECTION

Signal to Noise Ratio	: 70dB
Total Harmonic Distortion	: 0.08%(1KHz)
Channel Separation	: 50dB
D/A Conversion	: 16 bits

PHONO SECTION

SPEED	: 331/2 r.p.m, 45 r.p.m
CARTRIDGE	: CERAMIC type

* *Design and specifications are subject to change upon improvement without prior notice.*
* *Frequency range in radio section can be a little different from the above in accordance with frequency step or region.*

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SERVICE AUDIO-VIDEO
Mirosław Bogórski
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05-800 PRUSZKÓW
Tel. 728-37-19

■ SAFETY PRECAUTION

1. CLASS 1 LASER PRODUCT

This compact disc player is classified as a CLASS 1 laser product.

2. LASER WARNING LABEL

The label shown below may be affixed or not according to country.

(UL)

This Product Compiles with DHHS Rules 21CFR, Sub chapter J.At date of Manufacture.

(CSA)

CERTIFIED ONLT TO CANADIAN ELECTRICAL CODE.

CERTIFIE EN VERTU DU CODE CANADIAN DE LELETRICITE SEULEMENT

(EU)

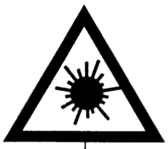
**CLASS 1
LASER PRODUCT**

Location : Enclosure back.

(SCAN)

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSAETTELSE F OR STRÅLING.

(EU)



UL : Manufactured for U.S.A.Market.
CSA : Manufactured for Canadian Market.
EU : Manufactured for European Market.
SCAN : Manufactured for Scandinavian Market.

Location : on the disc clamper or inner side of CD door or nearby CD chassis.

3. LASER BEAM WARNING

ADVERSEL— USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.

VARNING— OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRALEN ÄR FARLIG.

VARITUS— LAITE SISÄLTÄA LASERDIODIN, JOKA LÄHETTÄÄ NÄKYMÄTÖNTA SILMILLE VAARALLISTA LASERSATEILYÄ.

CAUTION— INVISIBLE LASER RADIATION WHEN DOOR IS OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

4. LASER DIODE SPECIFICATION (OPTICAL PICK-UP)

- Material: AlGaAs
- Wavelength: 760-800nm
- Emission duration: Continuous
- Laser Output: 0.2mW
- * This output is the value measured at distance 1.6mm from the objective lens surface on the optical pick-up block.
- Classification: CLASS 1

5.WARNING FOR SERVICING

WARNING: When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30cm from the surface of the objective lens on the optical pick-up block.

VARNING: När undeyhållningsarbeten utförs, närma dig försiktigt och se inte på laserutstrålningen på för näre häll. Ifall det är nödvändigt att betrygga laserstrålens utströmning. Var säker att kontrollera detta fån ett avstånd av mer än 30cm (11.81 inch.) från den objektiva linsens yta på den optiska utsåndningspunkten.

ADVARSEL: När repareringsarbejdet udfoeres, naerm dig forsigtigt og se ikke på laserudstrålingen på for naer hånd.
It ilfaeldet at det er noedvaendigt at bestemme laserstrålens udstråling. Vaer sikker på kontrollere dette fra en afstand af mere end 30cm (11.81 inch.) fra den objektive linses overflade pa den optiske udsendningspunkt.

VAROITUS: Silmiä on varottava viemästa liian läbeiie Laser-poistokanavaa huoiion aikana. Jos on välttämätöntä varmistaa Laser-Säteen päästö, pysyttels sitä tarkasteltaessa vähintään 30cm etäiyydellä optisen lukon objecktiivilinssin pinnasta.

■ SERVICING NOTES

1. Prevent shock hazard by unplugging power supply cord before opening cabinet.
2. Avoid reparing under direct sunshine and heat which may cause cabinet, transistor and IC to be transformed or misoperate.
3. Use a soft cotton swab moistened with warm water or neutral cleaner when parts of a unit need to be cleaned.
4. When repairing the set near a TV or any other magnetic forces.
5. Disconnect plug from wall socket during electric storm to reduce the resk of damage.
6. Be careful of electrostatic damage when replacing the control Ic such as µ-COM, LSI and pick-up.
7. Be sure not to separate the pick-up from the unit and not to touch the ALPC circuit.
8. (Automatic Laser Power Control).

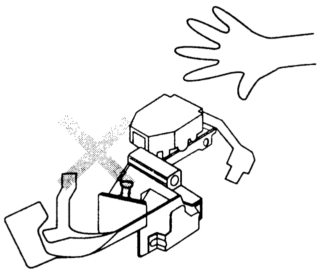
HANDLING THE OPTICAL PICK-UP

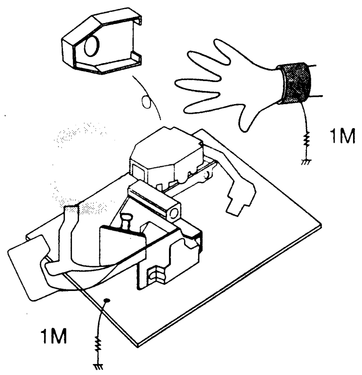
The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

1. Place a conductive sheet on the workbench. (The black sheet used as wrapping for repair parts.)
2. Place the set on the conductive sheet so that the chassis us grounded to the sheet.
3. Place your hands on the conductive sheet. (This gives them the same groumd as the sheet.)
4. Remove the optical pick up block.
5. Perform work on top of the conductive sheet.
   Be careform not to let your clothes or any other static sources touch the unit.

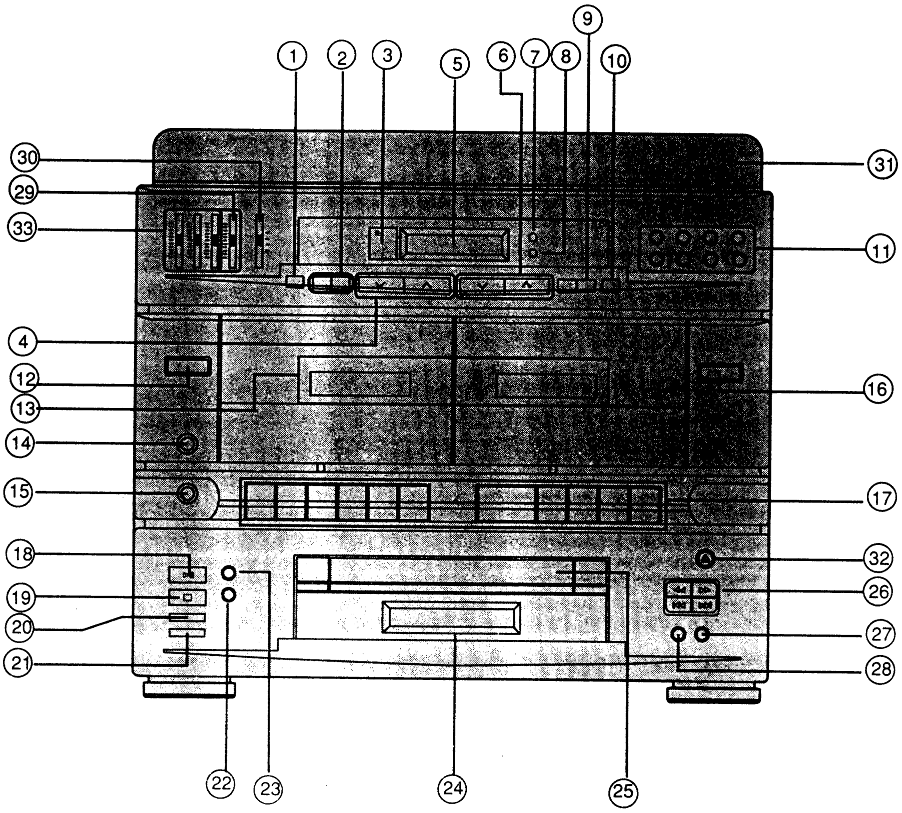
- * Be sure to put on a wrist-strap grounded to the sheet.
- * Be sure to lay a conductive sheet made of copper etc. which is grounded to the table.





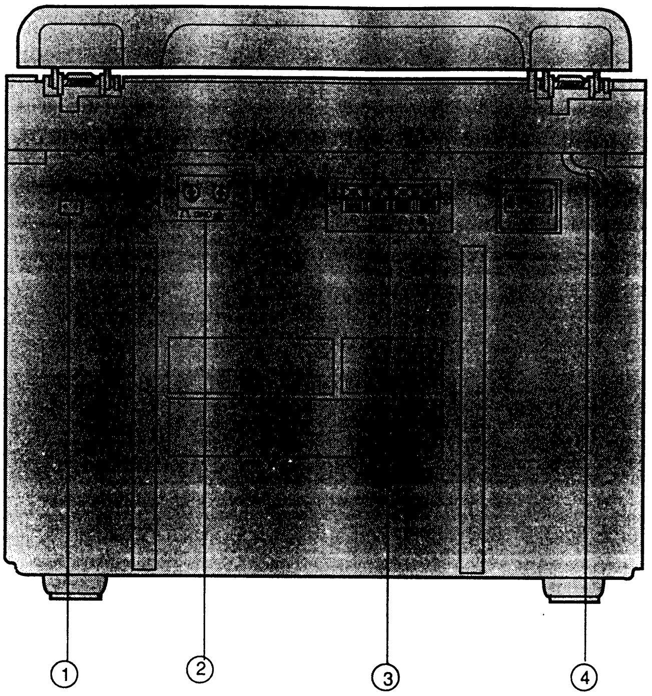
■ LOCATION OF CONTROLS

1. FRONT VIEW



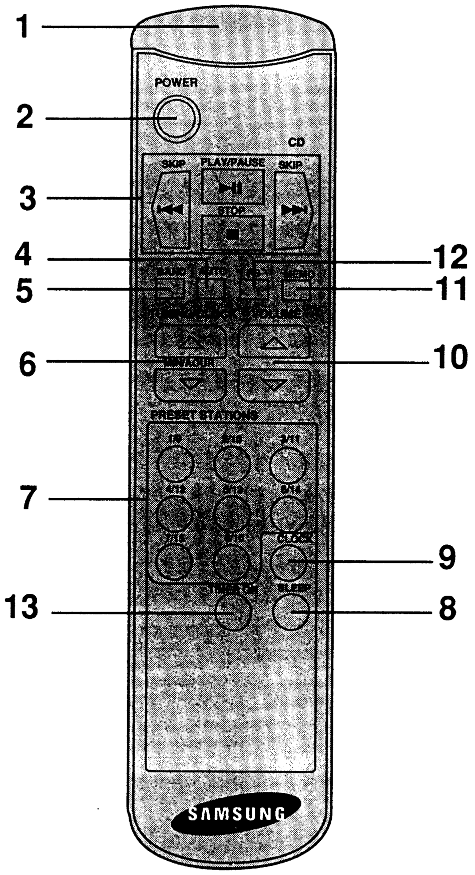
1. FM MODE BUTTON
2. CLOCK/TIMER BUTTON
3. REMOTE SENSOR
4. TUNING UP/DOWN BUTTON
5. TUNER/TIME DISPLAY
6. VOLUME UP/DOWN BUTTON
7. FM STEREO INDICATOR
8. POWER INDICATOR
9. AUTO/MEMORY BUTTON
10. BAND BUTTON
11. PRESET STATION BUTTONS
12. POWER BUTTON
13. A/B DECK DOOR
14. PHONE JACK
15. MIC JACK
16. HI SPEED DUBBING BUTTON
17. DECK A/B BUTTON
    - ● RECORD BUTTON
    - ● PLAY BUTTON
    - ● REWIND BUTTON
    - ● FAST FORWARD BUTTON
    - ● STOP/EJECT BUTTON
    - ● PAUSE BUTTON
18. PLAY/PAUSE BUTTON
19. STOP/CLEAR BUTTON
20. REPEAT BUTTON
21. SHUFFLE PLAY BUTTON
22. INTRO SCAN BUTTON
23. DISPLAY BUTTON
24. CD DISPLAY
25. CD DOOR
26. SEARCH/SKIP BUTTONS
27. PROGRAM/CHECK BUTTON
28. +10 BUTTON
29. BALANCE CONTROL
30. FUNCTION SELECTOR SWITCH
31. DUST COVER
32. OPEN/CLOSE BUTTON
33. 3BAND EQ VOLUME CONTROL

2. REAR VIEW



1. AM ANTENNA JACK
2. FM ANTENNA TERMINAL
3. SPEAKER TERMINAL
4. POWER CORD

3. REMOTE CONTROL UNIT


1
2
POWER
CD
3
SKIP
PLAY/PAUSE
SKIP
STOP
4
12
5
11
6
10
PRESET STATIONS
7
CLOCK
9
13
8
SAMSUNG

1. INFRARED TRANSMITTER WINDOW
2. POWER ON/OFF BUTTON
3. CD CONTROL BUTTON
   - ● PLAY/PAUSE BUTTON
   - ● STOP BUTTON
   - ● SKIP BUTTON
4. AUTO TUNING BUTTON
5. BAND BUTTON
6. TUNING UP/DOWN BUTTONS
7. PRESET STATION BUTTONS
8. SLEEP BUTTON
9. CLOCK BUTTON
10. VOLUME UP/DOWN BUTTONS
11. MEMORY BUTTON
12 PRESET SCAN BUTTON
13. TIMER ON BUTTON

■ DISASSEMBLY INSTRUCTION

1. CABINET - TOP,CABINET-FRONT,CABINET-BOTTOM--------FIG.1

1) Release 6 screws (①)
2) Remove TOP CABINET
3) Release 3 screws (②)
4) Remove FRONT CABINET
5) Release 2 screws (③)
6) Remove BOTTOM CABINET

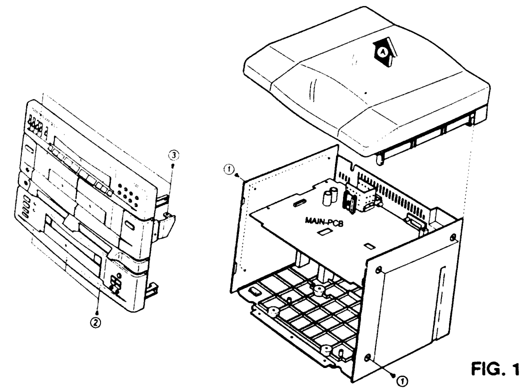

A
③
①
MAIN-PCB
②
①

FIG. 1

2. FRONT-PCB, MAIN-PCB----------------FIG.2

1) Release 6 screws (①)
2) Remove MAIN PCB
3) Release 8 screws (②)
4) Remove FRONT PCB

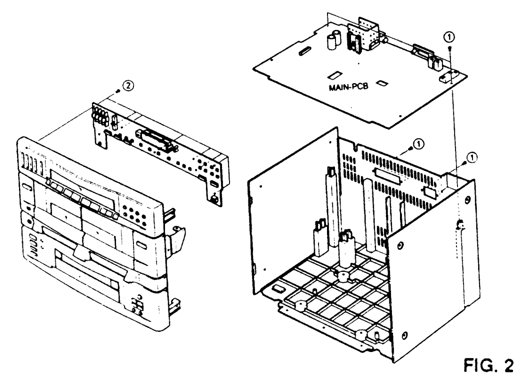

①
②
MAIN-PCB
①
①

FIG. 2

3. CASSETTE DOOR, CASSETTE DECK-------FIG. 3

1) Release 7 screws (①).
2) Remove CASSETTE DECK
3) Pull out CASSETTE DOOR (direction A)
4) Remove CASSETTE DOOR (direction B)

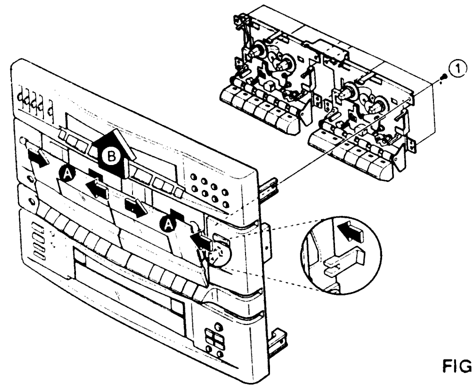


FIG. 3

4. CD PCB-L/R, DOOR-CD, CD-MECHANISM, CD MAIN-PCB-FIG. 4

1) Release 2 screws (①).
2) Remove L/R CD PCB
3) Release 4 screws (②)
4) Remove ASSY CD MECHA
5) Remove DOOR CD (direction A)
6) Release 3 screws (③)
7) Remove CD MAIN PCB

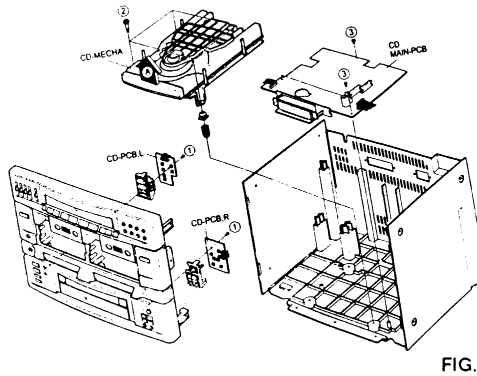

②
CD-MECHA
A
③
CD MAIN-PCB
③
CD-PCB.L
①
CD-PCB.R
①

FIG. 4

■ BASIC CIRCUIT OPERATION

1. TUNER

1) FM band
When on FM mode, low voltage at pin 8 of MICOM IC (UIC1) turns FQ1 ON which operates the F.E.P (Front End Pack), o
and turns IQ3 which converts IIC1 to FM mode, off.

2) AM (MW) BAND
In AM (MW) band, high voltage at pin8 of UIC1 turns the FQ1 off and turn IQ3 which converts IIC1 to AM mode, on.

2. TAPE RECORDER

1) PLAY
When PLAY button of deck A is pressed, leaf switch is on which drives the motor through the LD15.
Deck A is operational when pin 19 of JIC1 (TA 8189) is at 0V.
When the PLAY button of deck B is pressed, the Leaf switch of deck B is on, which drives the motor through the LD14.
Deck B is operational when 11 ~ 12 volts is applied to pin 19 of JIC1 (TA8189).
If you press both PLAY button of deck A and B simultaneously, deck B operates, first.

2) RECORD
If RECORD button of deck A is pressed, voltage is supplied to tape oscillation coil (LL1), which generates the bais supply current (85KHz) and the current is supplied through JC17L and JC17R to R/P head. At this time the current is combined with the current of the Record Amplifier Output incorporated in the JIC1 (TA8189 pin 9, 16) then supplied to the R/P head which records signal. At this moment, PLAY equalizer of deck A, B is set to deck B (pin 1, 24 of JIC1).

3) MOTOR SPEED
In normal speed, the speed is determined by the value which LR13 and LR14 is combined with LSR1.
Therefore, the motor speed is in proportion to the resistor value.
High speed dubbing operates only when function switch is on the TAPE mode.
When SW2 is on, B^+ voltage which will turn LQ6 off is supplied to base of LQ4. Then the motor rotates at high speed.
High rotational speed is determined by the value of LSR1.

3. PHONO

If function switch (SW1) is on PHONO mode, RQ4 is turned on and B^+ voltage is supplied to function IC (BIC1, BIC2). PHONO signal is passed through BIC1, BIC2.

4. CD PLAYER

1) KS5990/KS59910 (Digital Signal Processor) : UIC51

* I/O : INPUT/OUTPUT

Pin No.	Symbol	I/O	Description
1	SMEF	O	Pin 1 output is switched constant when output filter of the spindle motor is energized.
2	SMON	O	ON/OFF control for spindle motor.
3	SMPD	O	Spindle motor drive. Provides rough control during CLV-S mode and phase control during CLV-P mode.
4	SMSD	O	Spindle motor drive. Controls speed during CLV-P mode.
5	EFMZ	I	EFM signal from RF amplifier.
6	EFMO	O	Controls slice level of the EFM signal.
7	LOCK	O	The output of pin 7 reflects the status of the GFS signal which is sampled at PBFR/16. When the GFS signals is "H", but when the signal has remained "L" for at least 8 samples, the output of pin 7 is "L".
8	VCOO	O	VCO output. The frequency is f = 8.6436MHz, when locked by the DBFR signal.
9	VCOI	I	VCO input.
10	TEST	I	(0V)
11	PHAS	O	The output of Pin 11 provides phase comparison of EFM signal and VCO/2.
12	Vss	–	GND (0V).
13	MCK	I	Pin 13 provides serial transmission clock from the CPU. Data is latched on the leading edge of the clock.
14	MLT	I	Pin 14 provides latch input from the CPU. 8-bit shift register data (serial data received from the CPU) is latched in each of the registers.
15	MDAT	I	Serial data from the CPU.
16	XRST	I	System reset ("L")
17	TRCK	I	Tracking pulse input.
18	ISTAT	O	Output reflecting internal condition as designated by address.
19	MUTE	I	Muting input. MUTE is "L" when ATTM of internal register A is "L"(normal condition). MUTE is "H" when condition is set.
20	SQOK	O	Output the results CRC check of subcode Q.
21	SBCK	I	Clock input for subcode serial output.
22	SDAT	O	Serial output of subcode.
23	SQDT	O	Output of subcode Q.
24	S0S1	O	Output of subcode sync S0 + S1.
25	SQCK	I/O	Clock for reading subcode Q.
26	SQEN	I	Input for selecting SQCK (L;SQCK is output, H;SQCK is input)
27	SRAM	I	SRAM is "H" in Normal, SRAM is "L" when system is testing.
28	LKFS	O	Display output for frame sync lock status.
29	DB8	I/O	Data pin for external RAM. DATA8 (MSB) in test mode. Hi-Z in normal
30	DB7	I/O	Data pin for external RAM.DATA7 in test mode. Hi-Z in normal
31	DB6	I/O	Data pin for external RAM.DATA6 in test mode. Hi-Z in normal
32	DB5	I/O	Data pin for external RAM.DATA5 in test mode. Hi-Z in normal
33	VDD	–	Power supply (+5V)
34	DB4	I/O	Data pin for external RAM.DATA4 in test mode. Hi-Z in normal
35	DB3	I/O	Data pin for external RAM.DATA3 in test mode. Hi-Z in normal
36	DB2	I/O	Data pin for external RAM.DATA2 in test mode. Hi-Z in normal
37	DB1	I/O	Data pin for external RAM.DATA1 (LSB) in test mode. Hi-Z in normal

Pin No.	Symbol	I/O	Description
38	AD0	O	(LSB) In normal mode (TEST = 'L', SRAM ='H'), these pins are High impedance (Hi-Z) In test mode (TEST = 'H', SRAM ='L'), these pins are Output address of external RAM (MSB)
39	AD0	O	
40	AD0	O	
41	AD0	O	
42	AD0	O	
43	AD0	O	
44	AD0	O	
45	AD0	O	
46	AD0	O	
47	AD0	O	
48	AD0	O	
49	WE	I/O	in normal mode, this is WE output. In test mode, write enable input.
50	CE	I/O	in normal mode, this is CE output. In test mode, chip enable input.
51	4MCK	O	Divider output for crystal. f= 4.2336MHz
52	Vss	–	GND (0V)
53	XIN	I	Input to crystal oscillator circuit. Depending on the mode the frequency is either f = 8.4672 or 16.9344 MHz.
54	XOUT	O	Output from crystal oscillator circuit. Depending on the mode the frequency is either f = 8.4672 or 16.9344 MHz.
55	SEL1	I	Mode selection input 1.
56	SEL2	I	Mode selection input 2.
57	SEL3	I	Mode selection input 3.
58	SEL4	I	Mode selection input 4. Code switch input for audio data output. Serial output when "L", parallel output when "H">
59	SEL5	I	Mode selection input 5. Code switch input for audio data output. Serial output when "L", parallel output when "H".
60	APTR	O	Output for aperture compensation. "H" when R-ch.
61	APTL	O	Output for aperture compensation. "H" when L-ch.
62	C1F1	O	Monitor output reporting status of error correction for C1 decoder. When SEL5 = 'L', DA01 (LSB of parallel audio data) is output when SEL5 = 'H'.
63	C1F2	O	Monitor output reporting status of error correction for C1 decoder/when SEL5 ='L', DA02 is output when SEL5 = 'H'.
64	C1F2	O	Monitor output reporting status of error correction for C2 decoder/when SEL5 ='L', DA03 is output when SEL5 = 'H'.
65	C1F2	O	Monitor output reporting status of error correction for C2 decoder when SEL5 ='L', DA04 is output when SEL5 = 'H'.
66	C1F2	O	When SEL5 = 'L', output of status condition. C2FL is set 'H' when the C2 sequence. Presently being corrected becomes impossible to correct. DA05 is output when SEL5 = 'H'.
67	C2PO	O	Display output of the C2 pointer when SEL5 = 'L', DA06 is output when SEL5 = 'H'.
68	XTFR	O	When SEL5 = 'L', output of read frame clock which is 7.35KHz of the crystal system. DA07 is output when SEL5 = 'H'.
69	PBFR	O	When SEL5 = 'L', output of write frame clock which is 7.35KHz when locked by the crystal system. DA08 is output when SEL5 = 'H'.
70	$\overline{\text{PBCK}}$	O	When SEL5 = 'L', output of VCO/2 (f = 4.3218MHz when locked by the EFM signal). DA09 is output when SEL5 = 'H'.
71	FSDW	O	When SEL5 = 'L', output for unprotected frame sync patterns. DA10 is output when SEL5 = 'H'.
72	ULKFS	O	Output for display of status of frame sync protection when SEL5 = 'L'. DA11 is output when SEL5 = 'H'.

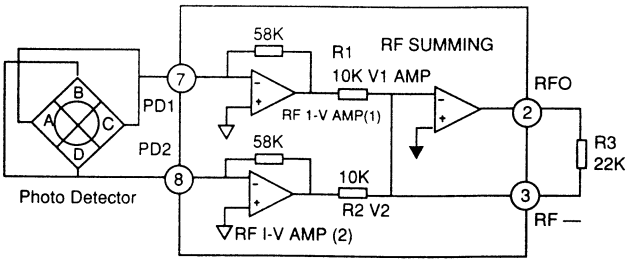
Pin No.	Symbol	I/O	Description
73	V_{DD}	—	Power supply (+5V)
74	$\overline{\text{JIT}}$	O	When SEL5 = 'L', output for display of either RAM overflow or underflow for +4 frame Jitter absorption. DA12 is output when SEL5 = 'H'.
75	ZWDCK	O	When SEL5 = 'L', output for strobe signal (352.8KHz when DF is ON, 176.4KHz when DF is OFF). DA13 is output when SEL5 = 'H'.
76	$\overline{\text{BLCK}}$	O	When SEL5 = 'L', inverse output of BLCK. DA14 is output when SEL5 = 'H'.
77	BLCK	O	When SEL5 = 'L', bit clock output (4.2336MHz when DF is ON, 2 1168MHz when DF is OFF) DA15 is output when SEL5 = 'H'.
78	DATA	O	Serial data output of audio signal when SEL5 = 'L' DA16 is output when SEL5 = 'H'.
79	WDCK	O	Strobe signal output. Output is 176.4KHz when DF is on. Output is 88.2KHz when DF is off.
80	CHCK	O	Strobe signal output. Output is 88.2KHz when DF is on. OUtput is 44.1KHz When DF is off.

2) KS56C820(MICOM) : UIC31

I : INPUT O : OUTPUT

Pin NO.	Symbol	Description
1,2,75~80	P8.0~P8.7	Output in 1-bit unit (shared with segment outputs)
	SEG24~SEG31	Segment output for LCD display (shared with port 8)
3~6	COM0~COM3	Common signal output for LCD display
7	BIAS	LCD Power Supply control pin for 3/5V operating
8~10	VLC0~VLC2	LCD Power Supply Pin
12	INT0,1,2,4	External interrupt input
13~15	SCK,SI,SO	SCK : serial clock, SI : Serial input, SO : Serial output
16~18	INT0,1,2,4	External interrupt input
19	PI.0~PI.3	4-bit input
20,23	P2,P7	4-bit input/output
22	CLO	Clock output
23	BUZ	2KHz Clock output for buzzer
24	LCDCK	LCD Clock output for display expansion
24,31	P3,P6	I/O mode selectable in 1-bit unit by software
25	LCDSY	LCD Sync Clock output for display expansion
28~35	KS0~KS7	Semi-interrupt input detecting external falling edge
32,35	P2,P7	4-bit input/output
36,43	P4,P5	4-bit input/output, N-ch open drain
47,48	Xin, Xout	Crystal/Ceramic or RC clock I/O for main-system clock
49,50	XTin, XTout	Crystal clock I/O for sub-system clock
51~74	SEG0~SEG23	Segment output for LCD display

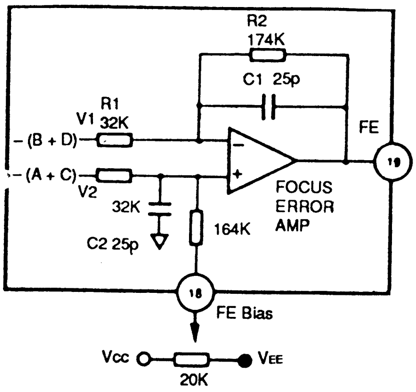
(2) RF AMPLIFIER (KA9201) : WIC01



RF I-V AMP(1) and RF I-V AMP(2) are converted into voltage from current signal of PD1 (A + C) and PD2(B + D) through the 58Kohm internal resistor. Furthermore, it is added in RF summing amplifier, this signal (A + B +C +D) is output at RFO (pin2). The RF output voltage (low frequency) is as follow.

VRF = - R3* (iPD1 + iPD2)
= - R3* (V1/R1 + V2/R2)
= - 22K* (V1/10K + V2/10K)
= - 2.2* (V1 +V2)

(3) FOCUS ERROR AMPLIFIER(KA9201) : RIC1


R2
174K
C1 25p
R1
V1 32K
– (B + D)
– (A + C)
V2
32K
C2 25p
164K
FOCUS
ERROR
AMP
FE
19
18
FE Bias
Vcc
20K
VEE

The Focus Error AMP is the difference between RF I-V AMP(1) output (A+C) and RF I-V AMP(2) output (B+D). These tow [A+C]. - (B+D)] signals are each applied to the (-) and (+) As the result of differential voltage, Focus Error signal appears at FE pin (pin19).

This FE output voltage (low frequency) become [(A+C) - (B+D)], as follow.

V_{FE} = R2/R1 X (V2-V1)
= 5.4 (V2 -V1)

The focus error voltage is directed to the focus servo circuit, to maintain optimum focusing at all times.

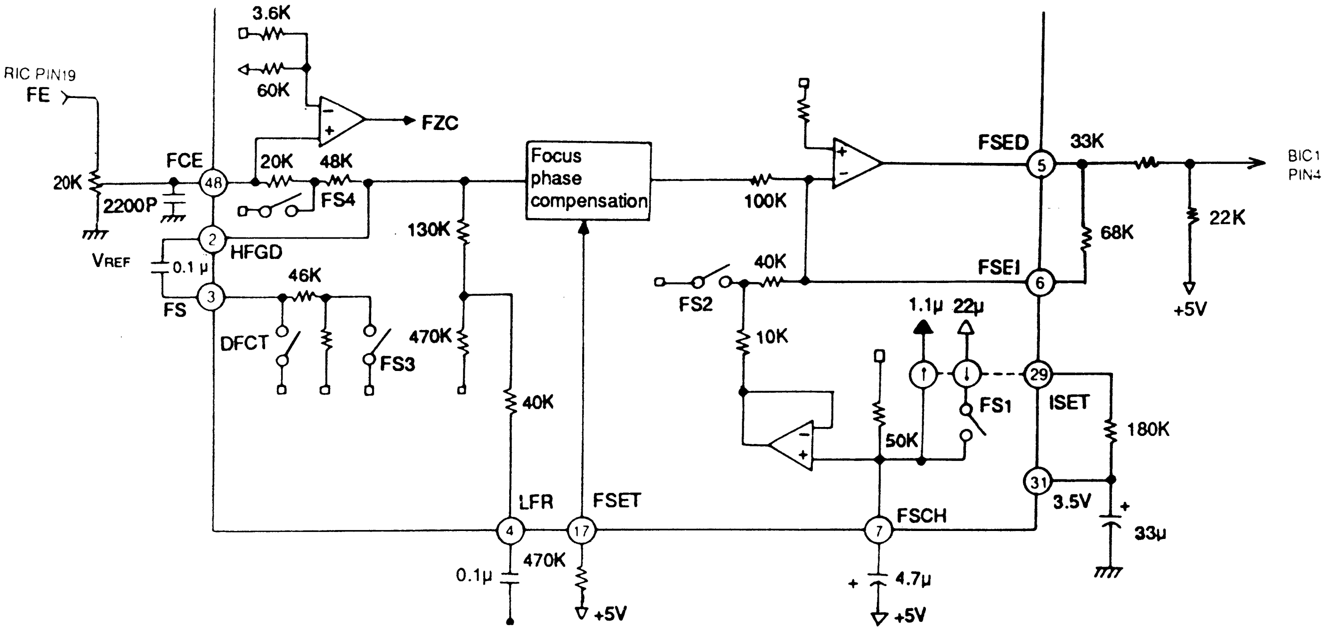
(4) FOCUS SERVO SYSTEM (KA8309) : SIC1

The below is a block diagram of the focus servo system.

When FS3 is switched on, the high frequency gain can be reduced by forming a low frequency time constant through a capacitor connected across pins 2 and 3 and the internal resistor.

The capacitor across the pin 4 and GND has a time constant to raise the low frequency signal usually during playback condition.

The peak frequency of the focus phase compensation is inversely proportional to the resistor connected to pin 17 (about 1.2KHz when the resistor is 470kΩ.


RIC PIN19
FE
20K
FCE
48
2200P
VREF
0.1 μ
2
HFGD
3
FS
3.6K
60K
FZC
20K
48K
FS4
46K
DFCT
FS3
130K
470K
40K
Focus phase compensation
LFR
FSET
4
17
0.1μ
470K
+5V
100K
FS2
40K
10K
50K
1.1μ
22μ
FS1
FSED
5
33K
68K
22K
+5V
BIC1 PIN4
FSEI
6
29
ISET
180K
31
3.5V
33μ
7
FSCH
4.7μ
+5V

The focus search peak becomes about ±1.1 Vp-p with above constant. The peak is inversely proportional to the resistor connected across pins 29 and 31. However, when this resistor is varied, the peaks of track jump and sled kick also vary.

The FZC comparator invert input is set to 5.7% of the difference between the reference voltage Vcc land Vc (Pin1): 5.7% x (Vcc-Vc)

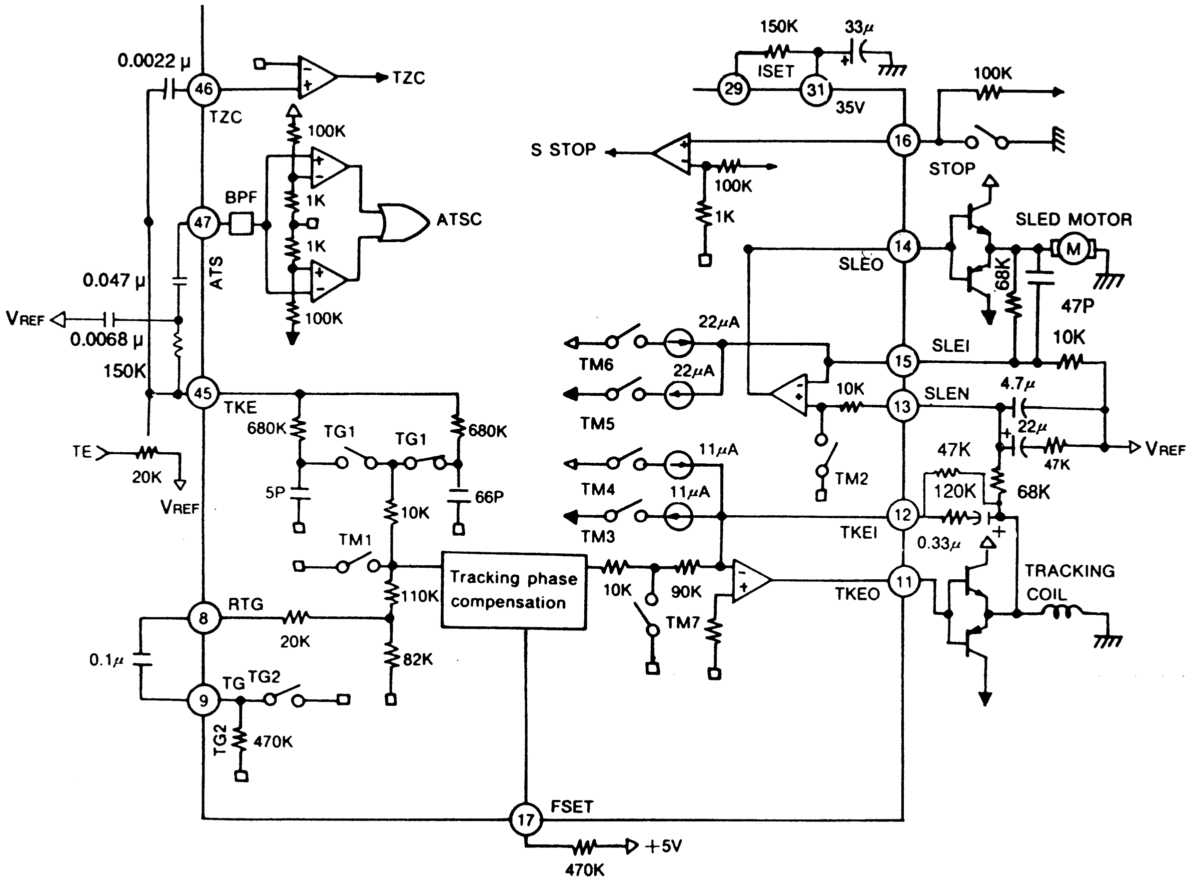
(5) TRACKING SELD SERVO SYSTEM (KA8309) : WIC21

The below is a block diagram of the tracking sled servo system.

The capacitor across pins 8 and 9 has a time constant to lower the high frequency when TG2 is switched off. The tracking phase compensation peak frequency is inversely proportional to the resistor connected to pin 17 (about 1.2KHz when the resistor is 470KΩ).

For a tracking jump in the FWD or REV direction, TM3 or TM4 are set to ON. At this time, the peak voltage fed to the tracking coil is determined by the TM3 and TM4 current Values and the feedback resistor from pin 12. That is:

Track jump peak voltage = TM3 (TM4) current value X feedback resistor value.


0.0022 μ
46
TZC
TZC
100K
BPF
47
1K
1K
ATSC
ATS
0.047 μ
VREF
0.0068 μ
150K
100K
45
TKE
680K
TG1
TG1
680K
TE
20K
VREF
5P
10K
66P
TM1
Tracking phase compensation
8
RTG
20K
110K
82K
0.1μ
9
TG
TG2
TG2
470K
17
FSET
470K
+5V
150K
33μ
ISET
29
31
35V
100K
16
STOP
S STOP
100K
1K
SLED MOTOR
M
14
SLEO
68K
47P
22μA
TM6
22μA
TM5
SLEI
15
10K
10K
13
SLEN
4.7μ
22μ
47K
VREF
TM2
47K
120K
68K
11μA
TM4
11μA
TM3
12
TKEI
0.33μ
10K
90K
TM7
11
TKEO
TRACKING COIL

The FWD or REV kick is done by setting TM5 or TM6 ON. At this time, the peak voltage added to the sled motor is determined by the TM5 or TM6 current value and the feedback resistor from pin 15.

Sled jump peak voltage = TM5(TM6) current value x feedback resistor value

Each SW current value is determined by the resistor connected to pins 29 and 31.

When the resistor is at about 150KΩ,

TM3 or TM4 is + 11 μA and TM5 or TM6 is + 22 μA.

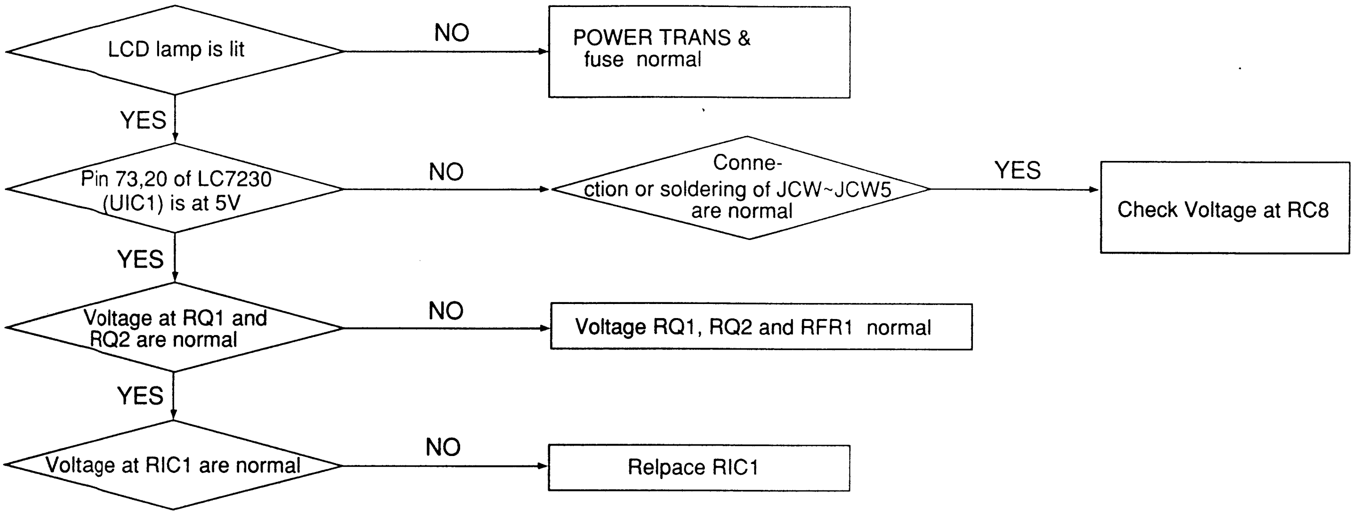
This current value is almost inversely proportional to the resistor, variable within a range of about 5 to 40 μA for TM3.

STOP is the ON/OFF detection signal for the limit SW or the sled motor's innermost circumference.

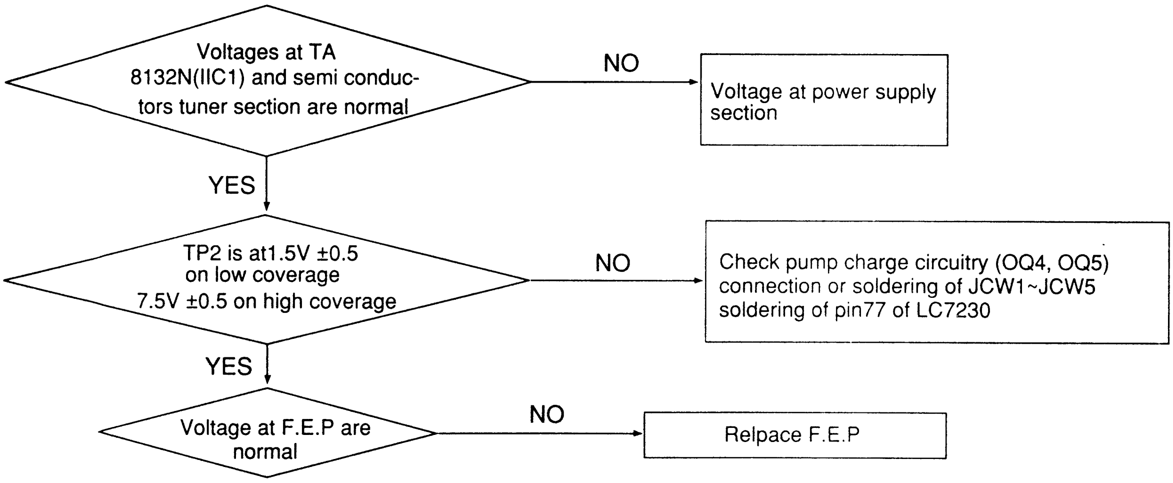
■ TROUBLE SHOOTING

1. MAIN SECTION

1) POWER ON/OFF PROBLEM

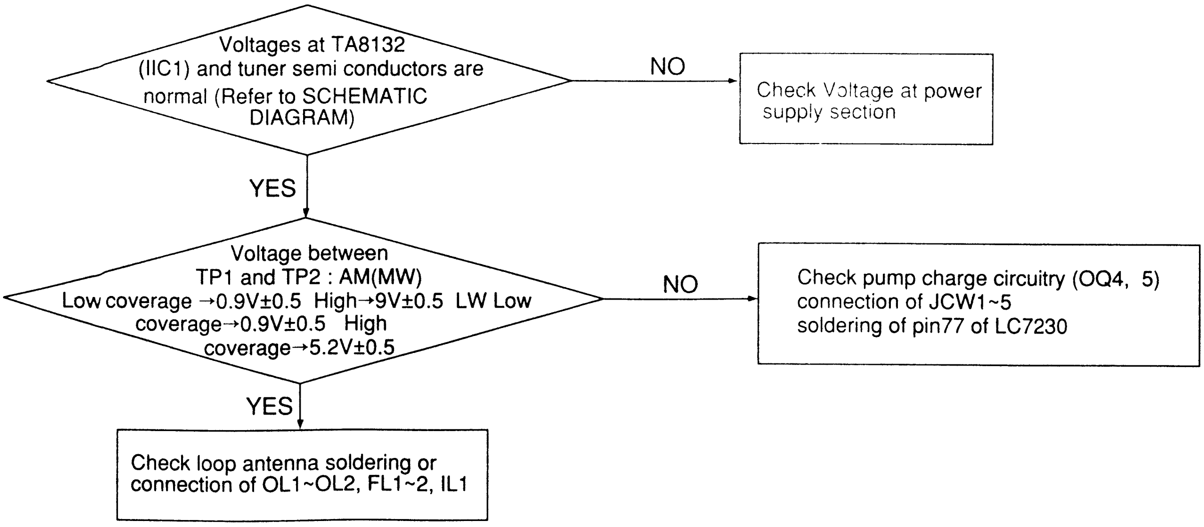

LCD lamp is lit
NO
POWER TRANS & fuse normal
YES
Pin 73,20 of LC7230 (UIC1) is at 5V
NO
Conne-ction or soldering of JCW~JCW5 are normal
YES
Check Voltage at RC8
YES
Voltage at RQ1 and RQ2 are normal
NO
Voltage RQ1, RQ2 and RFR1 normal
YES
Voltage at RIC1 are normal
NO
Relpace RIC1

2) FM NO SOUND

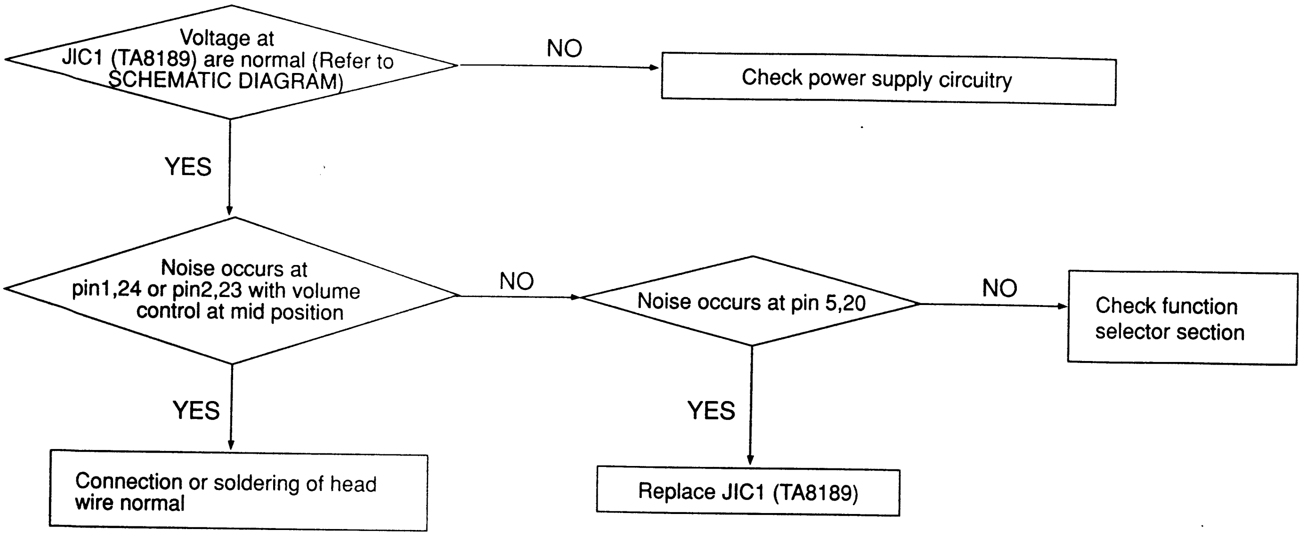

Voltages at TA 8132N(IIC1) and semi conductors tuner section are normal
NO
Voltage at power supply section
YES
TP2 is at1.5V ±0.5 on low coverage 7.5V ±0.5 on high coverage
NO
Check pump charge circuitry (OQ4, OQ5) connection or soldering of JCW1~JCW5 soldering of pin77 of LC7230
YES
Voltage at F.E.P are normal
NO
Relpace F.E.P

* F.E.P : FRONT END PACK

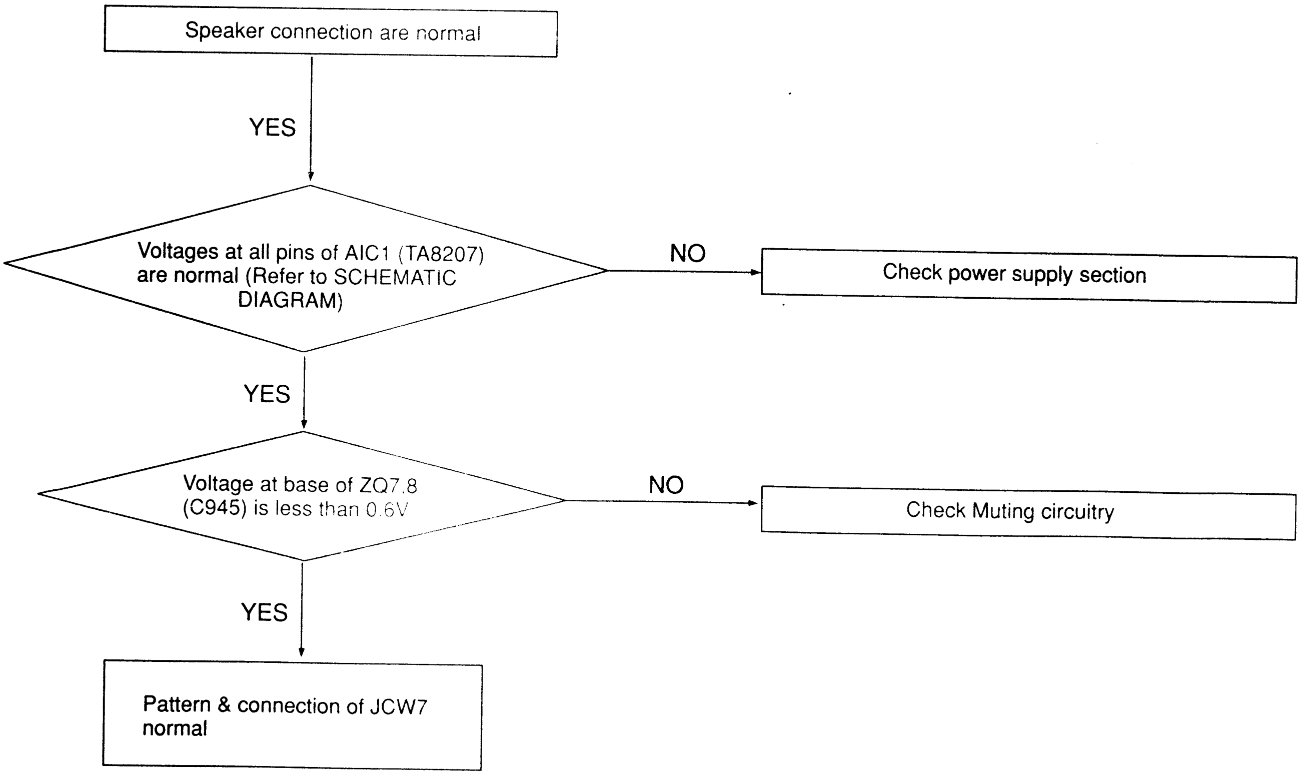
3) AM NO SOUND


Voltages at TA8132 (IIC1) and tuner semi conductors are normal (Refer to SCHEMATIC DIAGRAM)
NO
Check Voltage at power supply section
YES
Voltage between TP1 and TP2 : AM(MW) Low coverage →0.9V±0.5 High→9V±0.5 LW Low coverage→0.9V±0.5 High coverage→5.2V±0.5
NO
Check pump charge circuitry (OQ4, 5) connection of JCW1~5 soldering of pin77 of LC7230
YES
Check loop antenna soldering or connection of OL1~OL2, FL1~2, IL1

4) TAPE NOT PLAYING


Voltage at JIC1 (TA8189) are normal (Refer to SCHEMATIC DIAGRAM)
NO
Check power supply circuitry
YES
Noise occurs at pin1,24 or pin2,23 with volume control at mid position
NO
Noise occurs at pin 5,20
NO
Check function selector section
YES
Connection or soldering of head wire normal
YES
Replace JIC1 (TA8189)

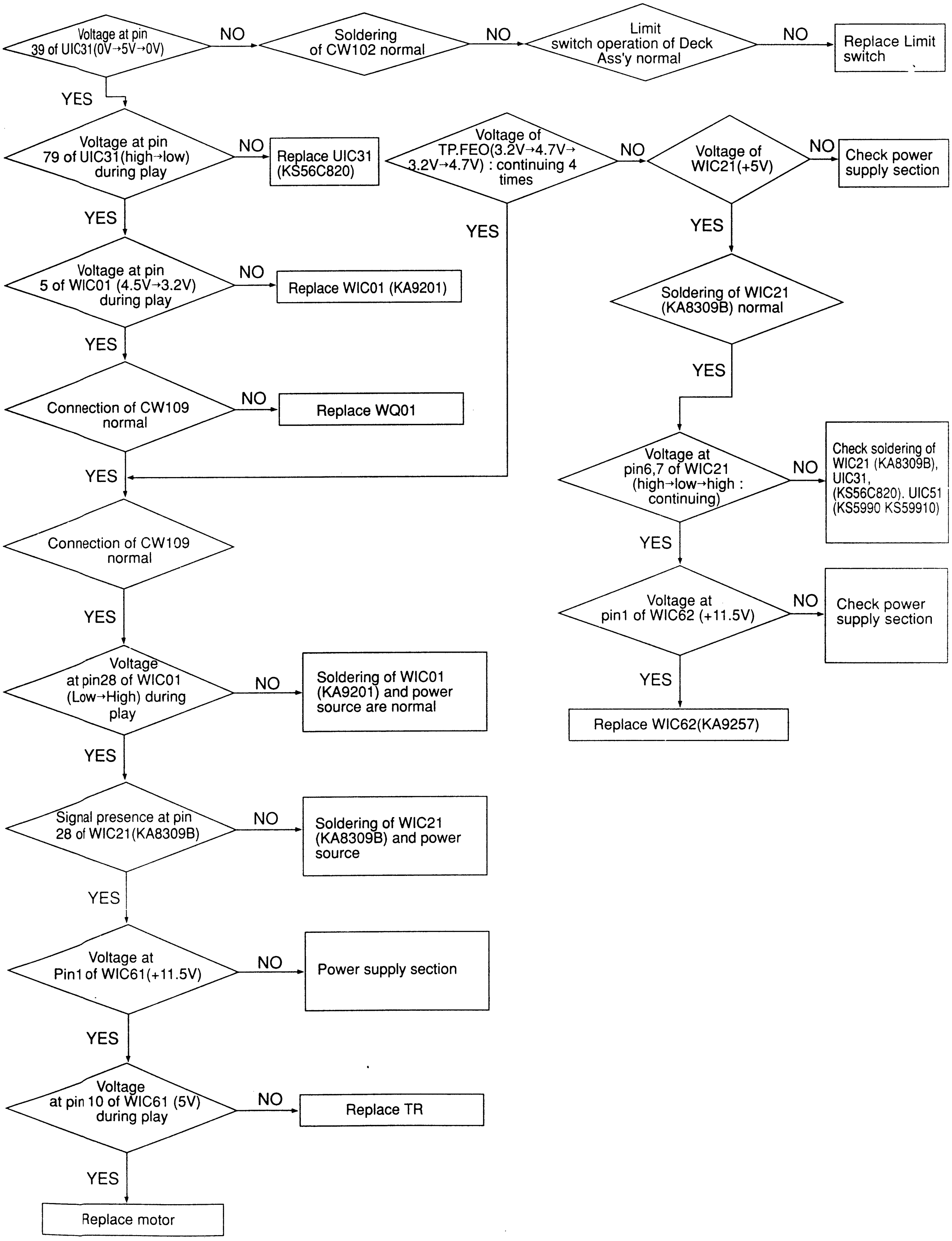
5) AUDIO OUTPUT PROBLEM


Speaker connection are normal
YES
Voltages at all pins of AIC1 (TA8207) are normal (Refer to SCHEMATIC DIAGRAM)
NO
Check power supply section
YES
Voltage at base of ZQ7,8 (C945) is less than 0.6V
NO
Check Muting circuitry
YES
Pattern & connection of JCW7 normal

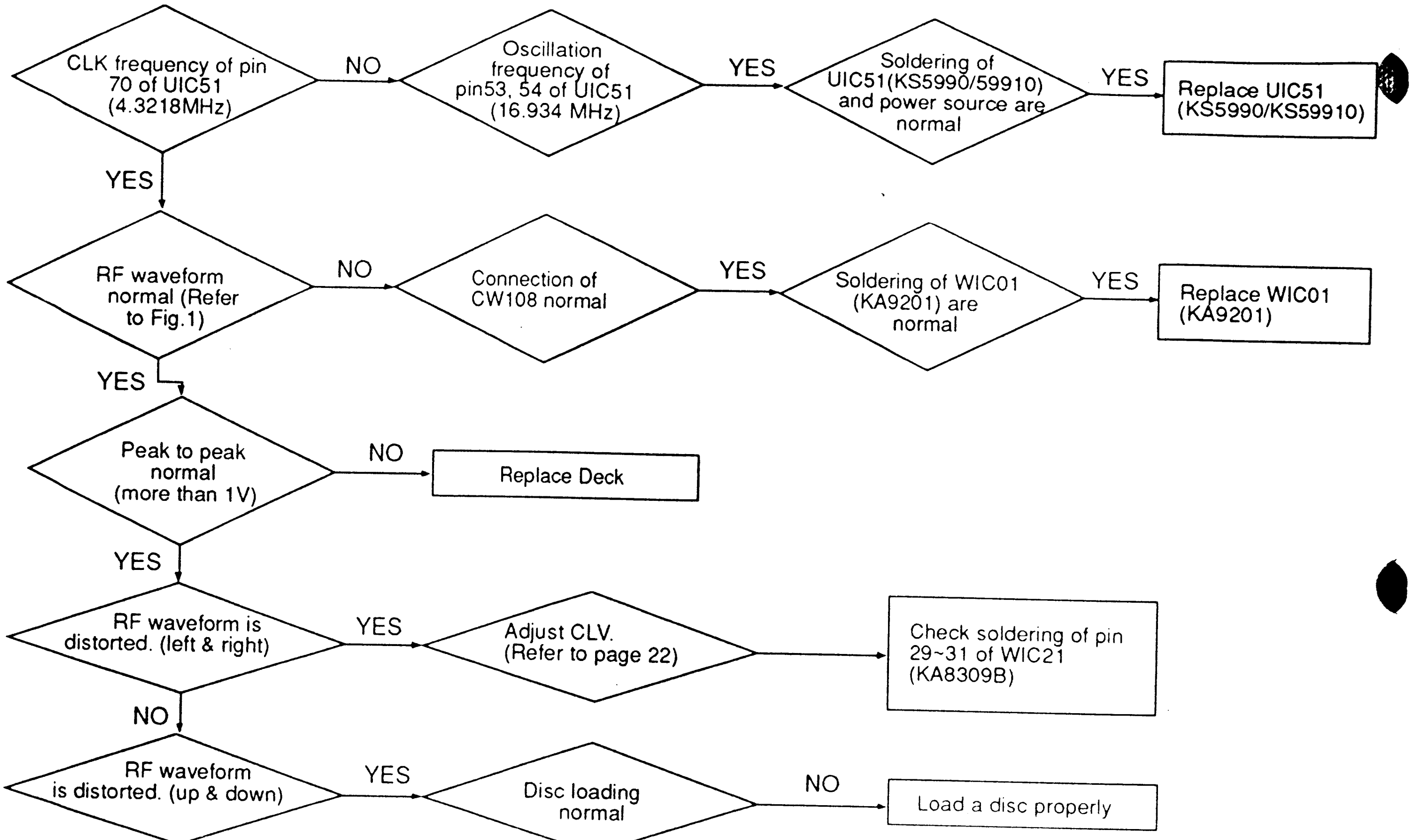
2. CDP

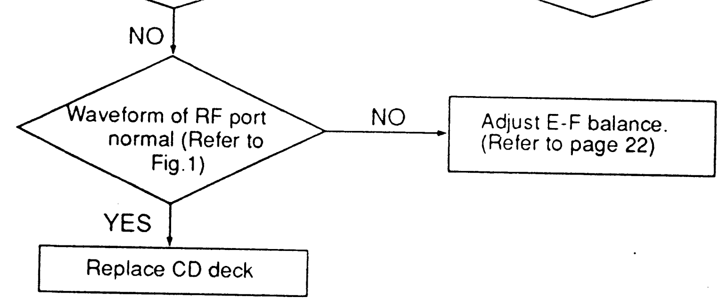
* Be sure not to use warped or dirty disc in troubleshooting

1) DISC DOESN'T ROTATE


Voltage at pin 39 of UIC31(0V→5V→0V)
NO
Soldering of CW102 normal
NO
Limit switch operation of Deck Ass'y normal
NO
Replace Limit switch
YES
Voltage at pin 79 of UIC31(high→low) during play
NO
Replace UIC31 (KS56C820)
Voltage of TP.FEO(3.2V→4.7V→3.2V→4.7V) : continuing 4 times
NO
Voltage of WIC21(+5V)
NO
Check power supply section
YES
YES
YES
Voltage at pin 5 of WIC01 (4.5V→3.2V) during play
NO
Replace WIC01 (KA9201)
Soldering of WIC21 (KA8309B) normal
YES
YES
Connection of CW109 normal
NO
Replace WQ01
Voltage at pin6,7 of WIC21 (high→low→high : continuing)
NO
Check soldering of WIC21 (KA8309B), UIC31, (KS56C820). UIC51 (KS5990 KS59910)
YES
YES
Connection of CW109 normal
Voltage at pin1 of WIC62 (+11.5V)
NO
Check power supply section
YES
YES
Replace WIC62(KA9257)
Voltage at pin28 of WIC01 (Low→High) during play
NO
Soldering of WIC01 (KA9201) and power source are normal
YES
Signal presence at pin 28 of WIC21(KA8309B)
NO
Soldering of WIC21 (KA8309B) and power source
YES
Voltage at Pin1 of WIC61(+11.5V)
NO
Power supply section
YES
Voltage at pin 10 of WIC61 (5V) during play
NO
Replace TR
YES
Replace motor

2) READ IN NOT WORKING


CLK frequency of pin 70 of UIC51 (4.3218MHz)
NO
Oscillation frequency of pin53, 54 of UIC51 (16.934 MHz)
YES
Soldering of UIC51(KS5990/59910) and power source are normal
YES
Replace UIC51 (KS5990/KS59910)
YES
RF waveform normal (Refer to Fig.1)
NO
Connection of CW108 normal
YES
Soldering of WIC01 (KA9201) are normal
YES
Replace WIC01 (KA9201)
YES
Peak to peak normal (more than 1V)
NO
Replace Deck
YES
RF waveform is distorted. (left & right)
YES
Adjust CLV. (Refer to page 22)
Check soldering of pin 29~31 of WIC21 (KA8309B)
NO
RF waveform is distorted. (up & down)
YES
Disc loading normal
NO
Load a disc properly


NO
Waveform of RF port normal (Refer to Fig.1)
NO
Adjust E-F balance. (Refer to page 22)
YES
Replace CD deck

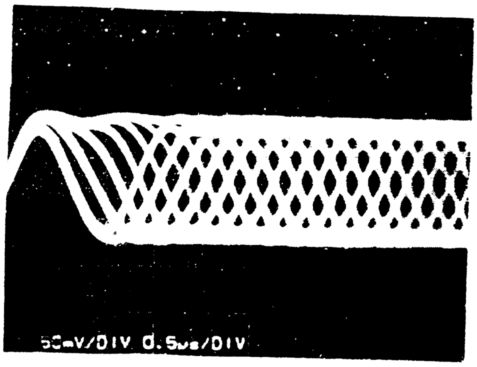
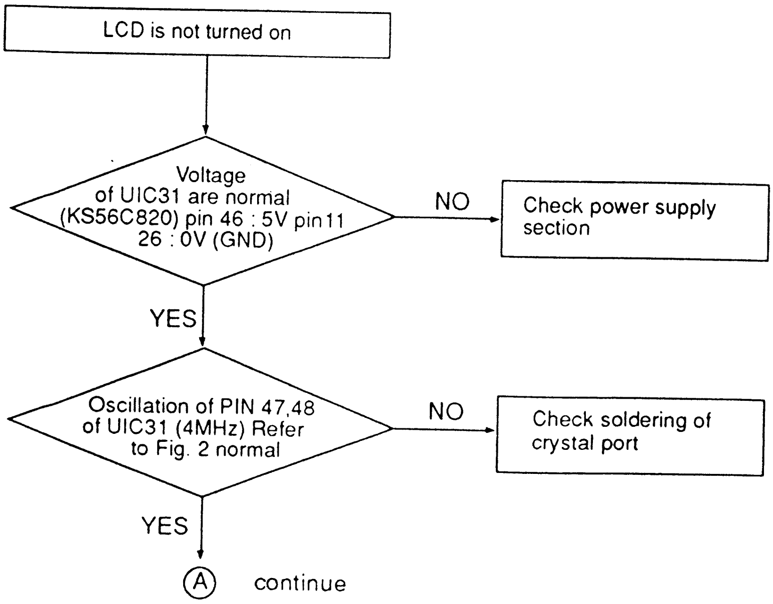


FIG.1

3) DISPLAY NOT WORKING


LCD is not turned on
Voltage of UIC31 are normal (KS56C820) pin 46 : 5V pin11 26 : 0V (GND)
NO
Check power supply section
YES
Oscillation of PIN 47,48 of UIC31 (4MHz) Refer to Fig. 2 normal
NO
Check soldering of crystal port
YES
Ⓐ continue

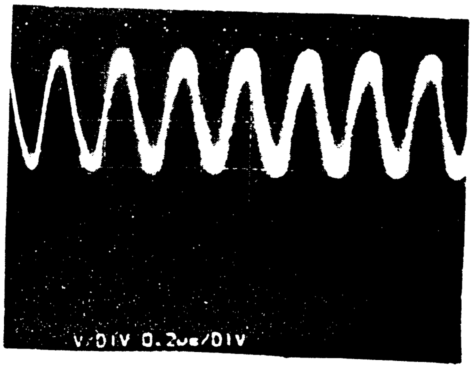
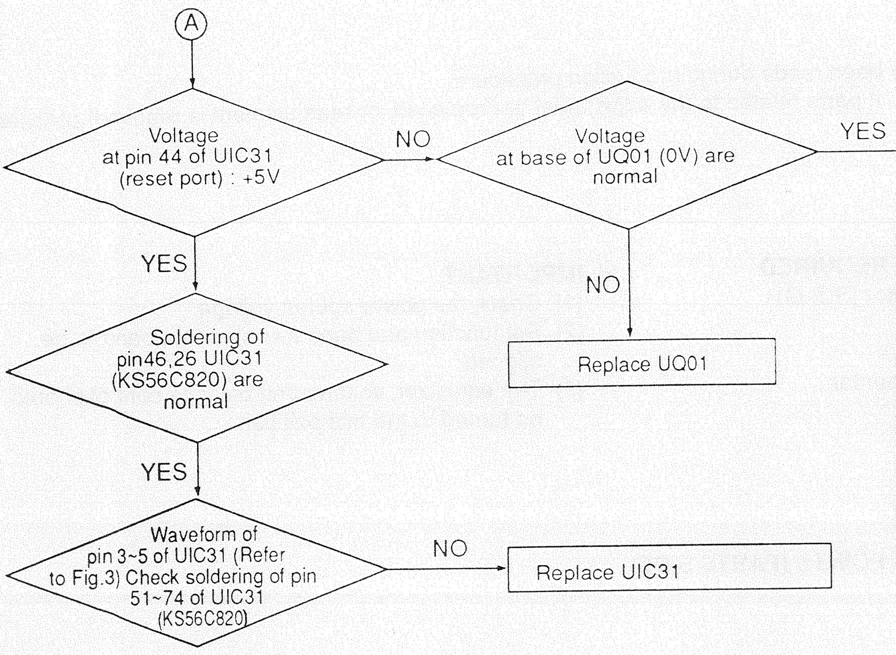


FIG.2


A
Voltage at pin 44 of UIC31 (reset port) : +5V
NO
Voltage at base of UQ01 (0V) are normal
YES
Check if pattern and soldering are normal
NO
Replace UQ01
YES
Soldering of pin46,26 UIC31 (KS56C820) are normal
YES
Waveform of pin 3~5 of UIC31 (Refer to Fig.3) Check soldering of pin 51~74 of UIC31 (KS56C820)
NO
Replace UIC31

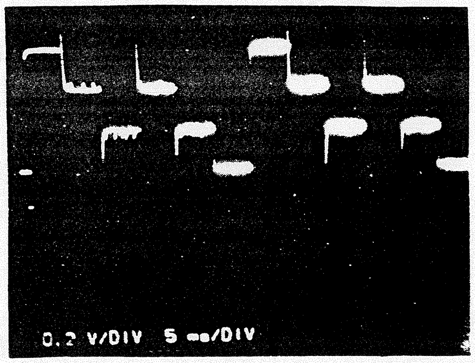
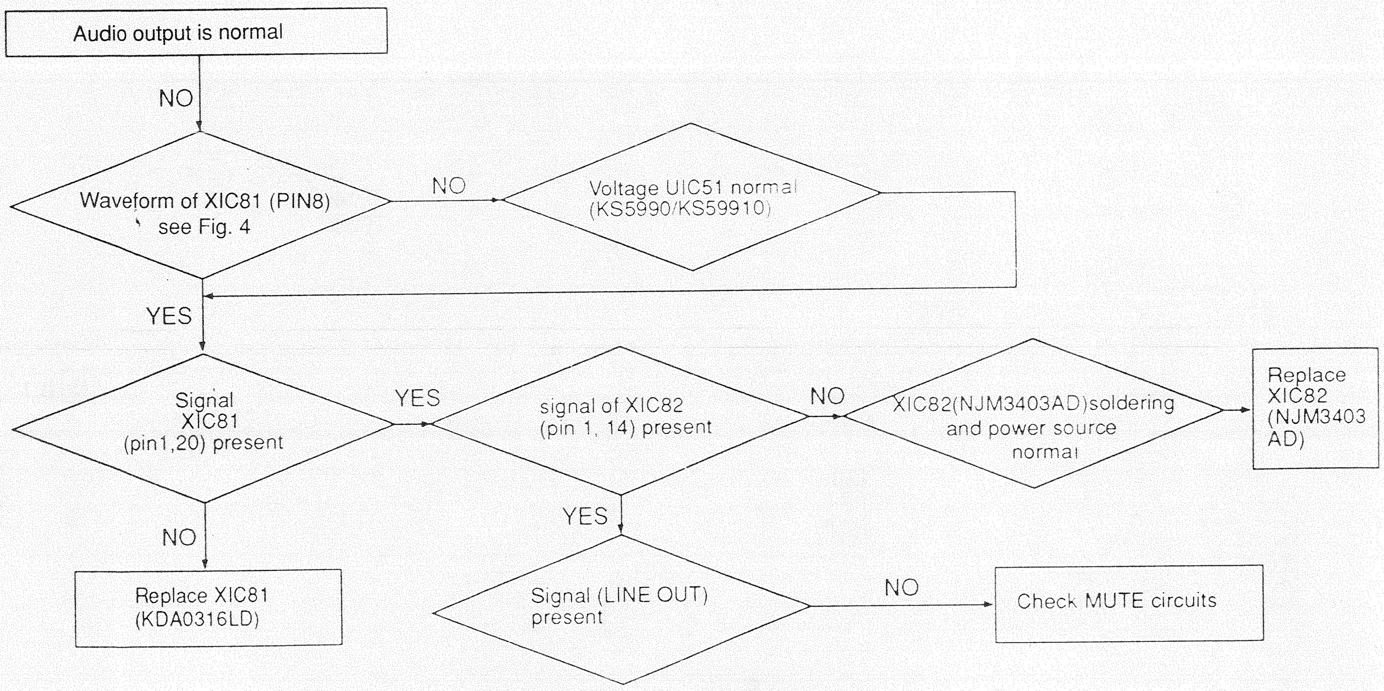


FIG.3

4) NO AUDIO OUTPUT


Audio output is normal
NO
Waveform of XIC81 (PIN8) see Fig. 4
NO
Voltage UIC51 normal (KS5990/KS59910)
YES
Signal XIC81 (pin1,20) present
YES
signal of XIC82 (pin 1, 14) present
NO
XIC82(NJM3403AD)soldering and power source normal
Replace XIC82 (NJM3403 AD)
NO
Replace XIC81 (KDA0316LD)
YES
Signal (LINE OUT) present
NO
Check MUTE circuits

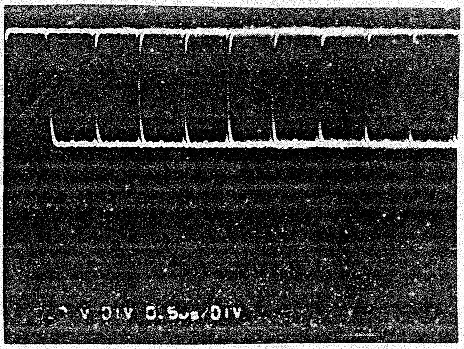


FIG.4

ADJUSTMENT

Adjustments to this unit have already been made during production procedure.
Therefore, no adjustment is needed. If parts related to the adjustment are replaced, or readjustment is required, proceed with adjustments in the order given

1. TUNER

1) MEASURING INSTRUMENTS REQUIRED

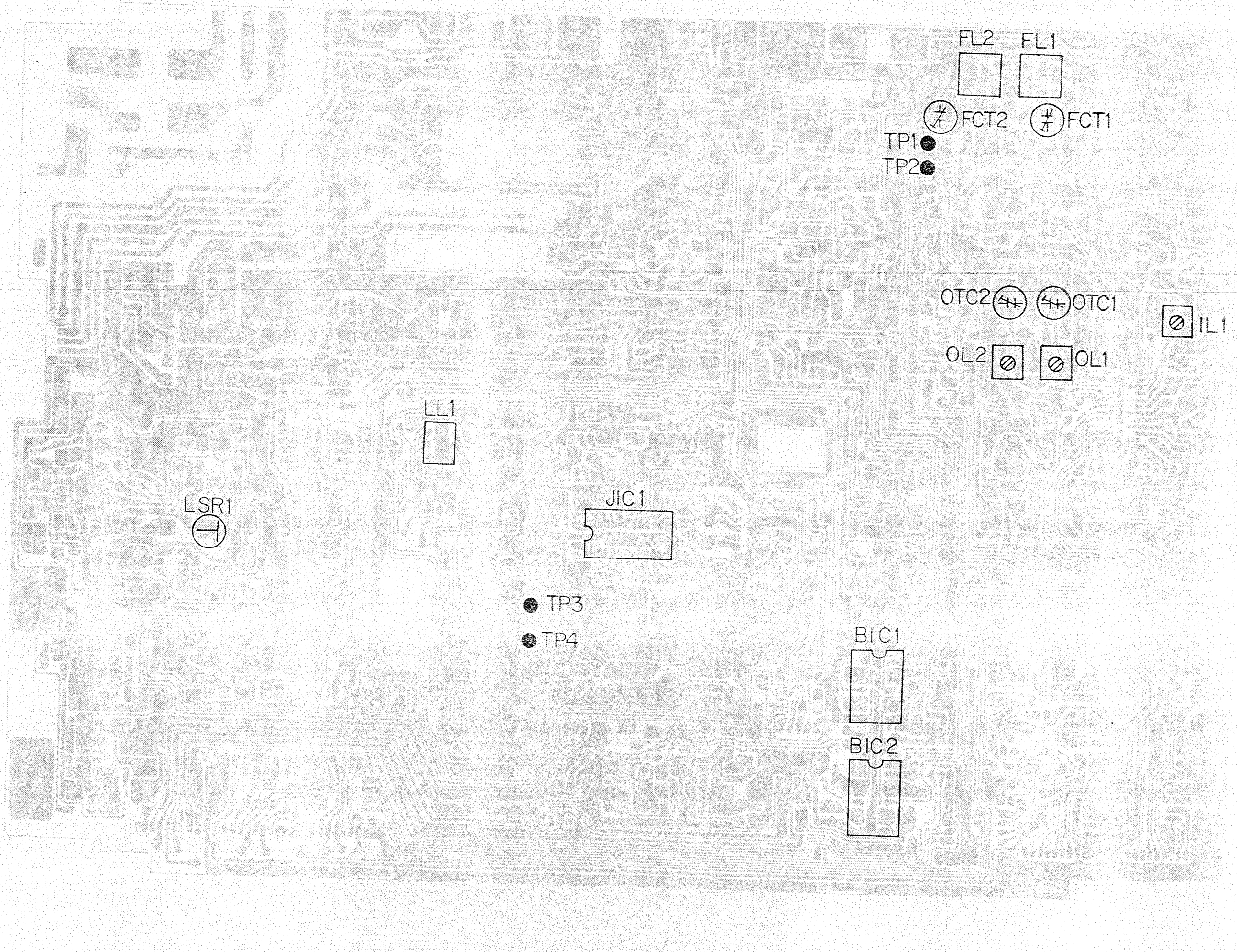
(1) AM standard signal generator (S.S.G)
: 400Hz, 30% MOD.
(2) OSCILLOSCOPE
(3) VTVM (4) Frequency counter
(5) Loop antenna
(6) Dummy load (4 Ω)
(7) DC voltmeter

2) IMPORTANT

(1) Check the power source voltage.
(2) Set function and band switches to a band to be aligned.
(3) The equalizer, volume and balance control should be turned to the mid position.

3) LOCATION OF ADJUSTMENT POINTS (PARTS SIDE)

MAIN PCB


FL2
FL1
FCT2
FCT1
TP1
TP2
OTC2
OTC1
IL1
OL2
OL1
LL1
LSR1
JIC1
TP3
TP4
BIC1
BIC2

4) ADJUSTMENT PROCEDURE

(1) FM ADJUSTMENT

(2) AM ADJUSTMENT

① 2 BAND (FM/AM)

STEP	ITEM	CONNECTION	SSG FREQ.	FREQ. SETTING	ADJUSTMENT POINT	RESULT & REMARK
1	Intermidiate frequency (IF) adjustment	FIG. 2	522KHz	522KHz	IL1	Maximum output
2	AM frequency coverage adjustment	FIG. 1 Connect DC voltmeter to TP2 and GND (TP1).	—	522KHz	OL1	0.9V
3			—	1611KHz	OTC1	9V
4	Repeat step 2 and 3 several times.					
5	AM tracking adjustment	FIG. 2	594KHz	594KHz	FL1	Maximum output
6			1404KHz	1404KHz	FCT1	Maximum output
7	Repeat step 5 and 6 several times.					

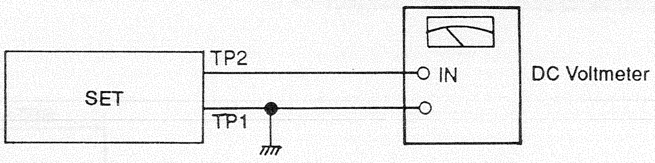

TP2
SET
TP1
IN
DC Voltmeter

FIG. 1) AM FREQUENCY COVERAGE ADJUSTMENT

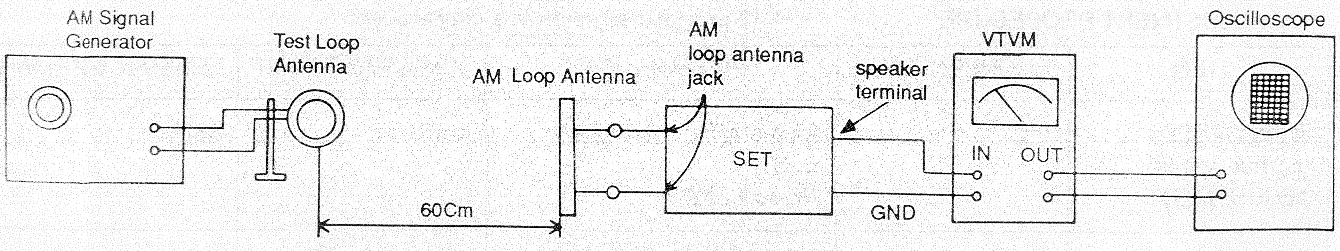

AM Signal Generator
Test Loop Antenna
AM Loop Antenna
AM loop antenna jack
speaker terminal
VTVM
Oscilloscope
SET
IN
OUT
GND
60Cm

FIG. 2) AM TRACKING ADJUSTMENT

2. TAPE

1) ADDITIONAL TEST EQUIPMENT-TESTING TAPE

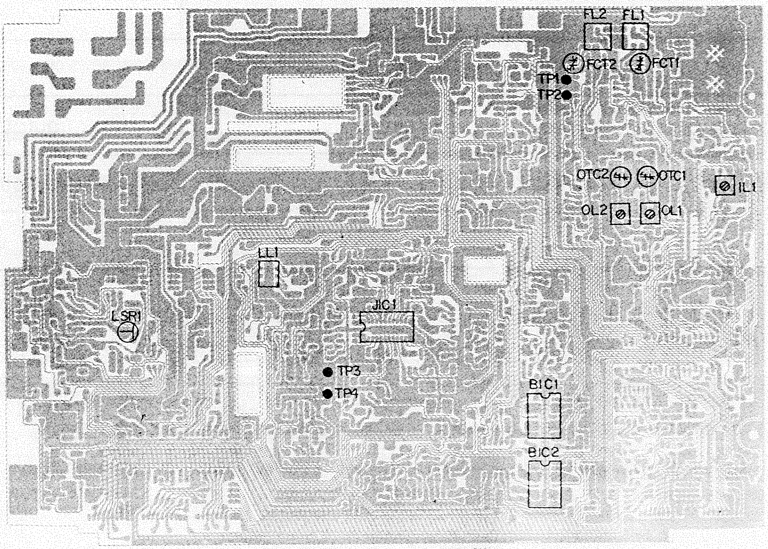
① **MTT-111 (or equivalent) : Test tape on which 3KHz signal is recorded → Tape speed adjustment.**

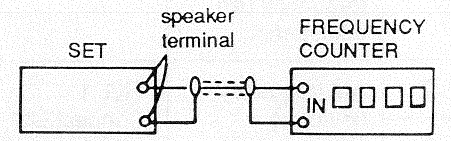
② MTT-5512 (or equivalent) or blank tape → Record bias oscillation adjustment.

③ **MTT-114 (or equivalent) : Test tape on which 10KHz signal is recorded → Azimuth adjustment.**

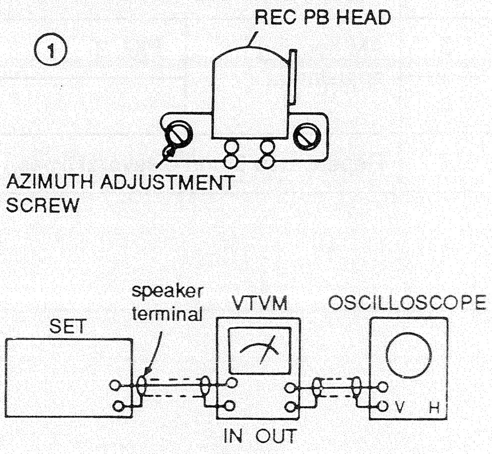
2) LOCATION OF ADJUSTMENT POINTS (PARTS SIDE)

MAIN PCB

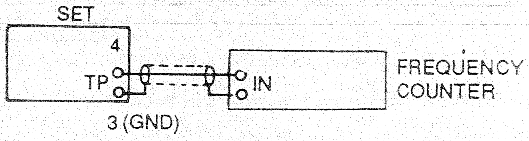

FL2
FL1
FCT2
FCT1
TP1
TP2
OTC2
OTC1
IL1
OL2
OL1
LL1
LSR1
JIC1
TP3
TP4
BIC1
BIC2


SET
speaker terminal
FREQUENCY COUNTER
IN

<FIG. 1>


①
REC PB HEAD
AZIMUTH ADJUSTMENT SCREW
SET
speaker terminal
VTVM
OSCILLOSCOPE
IN
OUT
V
H

<FIG. 2>


SET
4
TP
3 (GND)
IN
FREQUENCY COUNTER

<FIG. 3>

3) ADJUSTMENT PROCEDURE

* High speed adjustment is not required.

ITEM	CONNECTION	PREPARATION	ADJUSTMENT POINT	RESULT & REMARK
TAPE SPEED (normal speed) ADJUSTMENT	FIG. 1	Insert MTT-111 to deck A or B. Press PLAY.	LSR1	3KHz
AZIMUTH (DECK A, B) ADJUSTMENT	FIG. 2 ②	Insert MTT-114 to deck A. (and B) Press PLAY.	<FIG. 2> : ①	Maximum output and same phase of L, R channel. Fix the screw after adjustment.
BIAS OSCILLATION FREQUENCY ADJUSTMENT	FIG. 3	Insert MTT-5512 to deck A Press RECORD.	LL1	85KHz

3 . CD PLAYER

1. MEASURING INSTRUMENTS

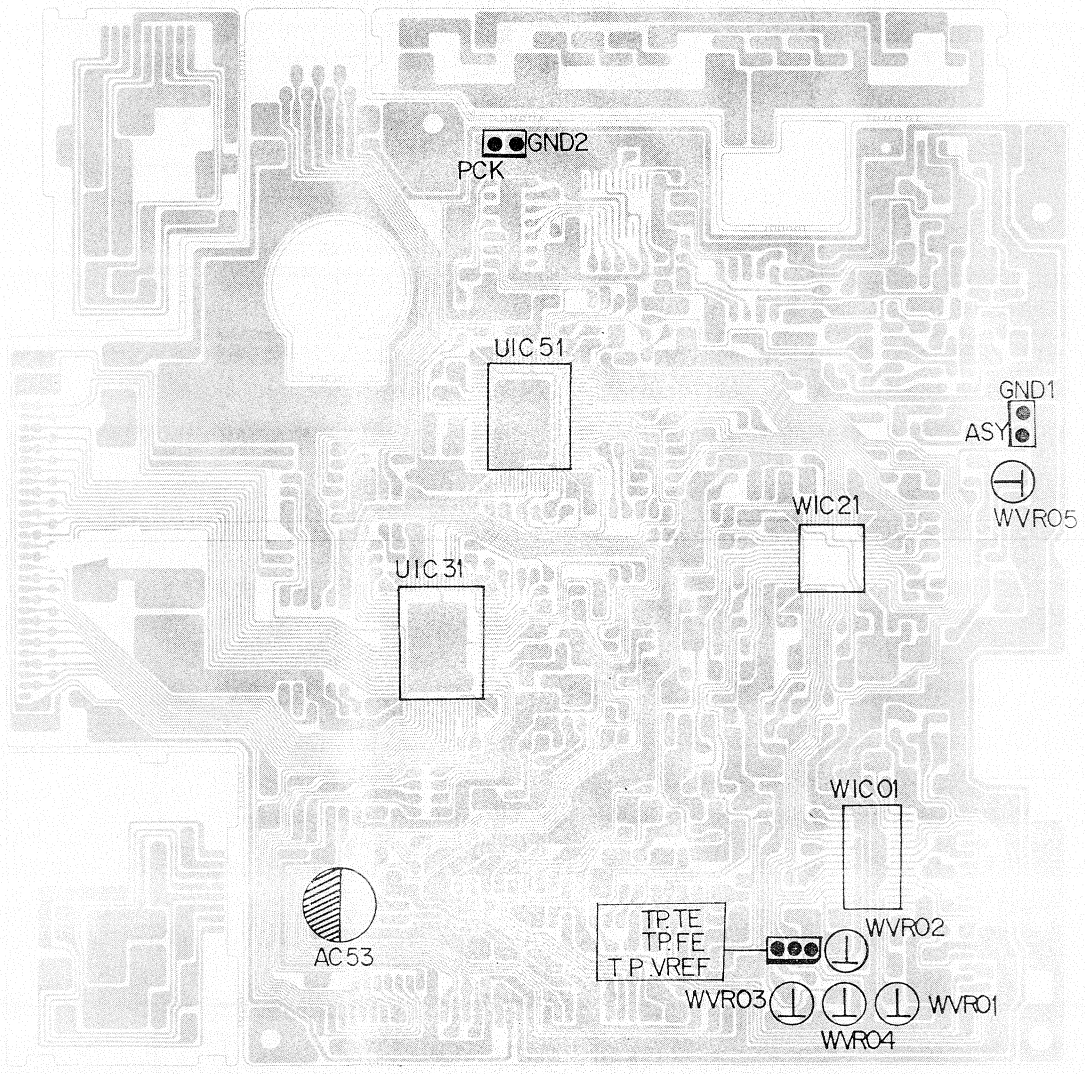
1) Oscilloscope (Frequency≧100MHz)
2) Probe (10 : 1)
3) Frequency counter

2. IMPORTANT

1) Semi-Volume position can be a little different according to unit.
2) Be sure not to use a warped or dirty disc when adjusting.
3) When adjusting Semi-Volume, use plastic screw driver.

3. LOCATION OF ADJUSTMENT (PARTS SIDE)

CD PCB



WVR 01	:	E-F balance adjustment
WVR 02	:	Focus bias adjustment
WVR 03	:	Tracking gain adjustment
WVR 04	:	Focus gain adjustment
WVR 05	:	CLV adjustment

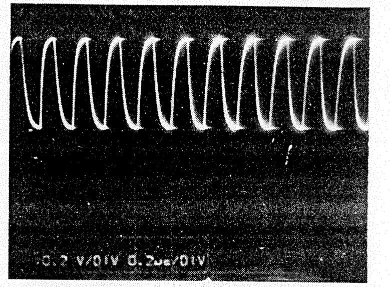
TP.FE	:	To oscilloscope signal port
TP.TE	:	To oscilloscope signal port
PCK	:	To oscilloscope signal port
TP. VREF	:	To oscilloscope GND port
GND2	:	To oscilloscope GND port

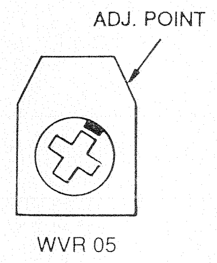
4) ADJUSTMENT PROCEDURE

(1) CLV ADJUSTMENT

① Turn power on and load a disc.
② Frequency counter connection
(+) terminal ; PCK
(−) terminal ; GND2
③ Connect ASY to GND2
④ Adjust WVR 05 so the frequency counter reads 4.50 ±0.005MHz. (Adjust in stop mode)
⑤ Disconnect ASY from GND1

CLV

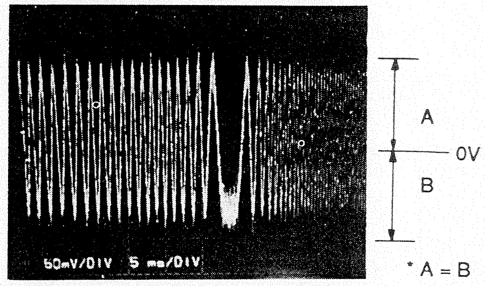


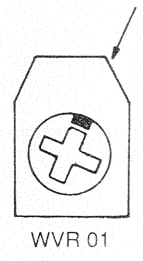


(2) E-F BALANCE ADJUSTMENT

① Turn power on and load a disc.
② Press play.
③ Oscilloscope setting and connection
{VOLT/DIV ; 50mV {(+) terminal ; TP.TE
{TIME/DIV ; 5mS {(−) terminal ; TP. VREF
④ Adjust WVR 03 fully counter clockwise
⑤ Adjust WVR 01 so the waveform is as shown in the E - F Balance Figure.
⑥ Set WVR 03 back to the place it was before adjustment.

E-F BALANCE

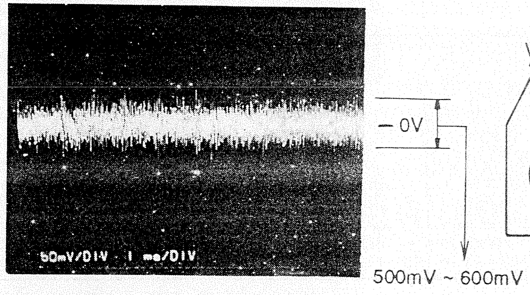


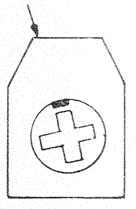


(3) TRACKING GAIN ADJUSTMENT

① Turn power on and load a disc.
② Press play.
③ Oscilloscope setting and connection
{VOLT/DIV ; 50mV {(+) terminal ; TP.TE
{TIME/DIV ; 1mS {(−) terminal ; TP.VREF
④ Adjust WVR 03 so the peak to peak waveform is as shown in the Tracking gain Figure.

TRACKING GAIN

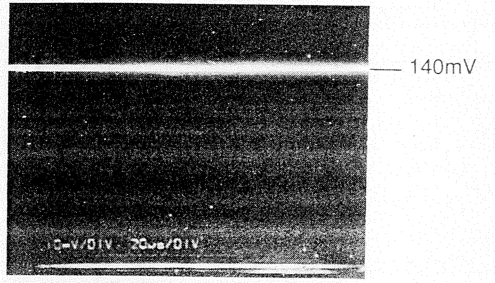


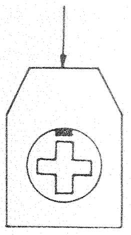


(4) FOCUS BIAS ADJUSTMENT

① Turn power on and load a disc.
② Oscilloscope setting and connection
{VOLT/DIV ; 10mV {(+) terminal ; TP.FE
{TIME/DIV ; 20 µS {(−) terminal ; TP. VREF
③ Adjust WVR 02 so the waveform is as shown in Focus bias Figure. (Adjust in stop mode)

FOCUS BIAS

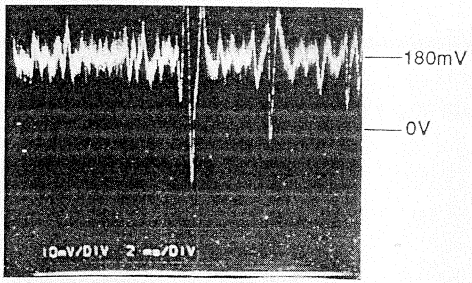


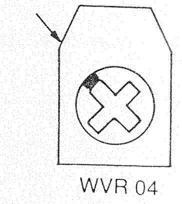


(5) FOCUS GAIN ADJUSTMENT

① Turn power on and load a disc.
② Press play.
③ Oscilloscope setting and connection
{VOLT/DIV ; 10mV {(+) terminal ; TP.FE
{TIME/DIV ; 2mS {(−) terminal ; TP. VREF
④ Adjust WVR 04 so the peak to peak waveform is as shown in the Focus gain Figure.

FOCUS GAIN

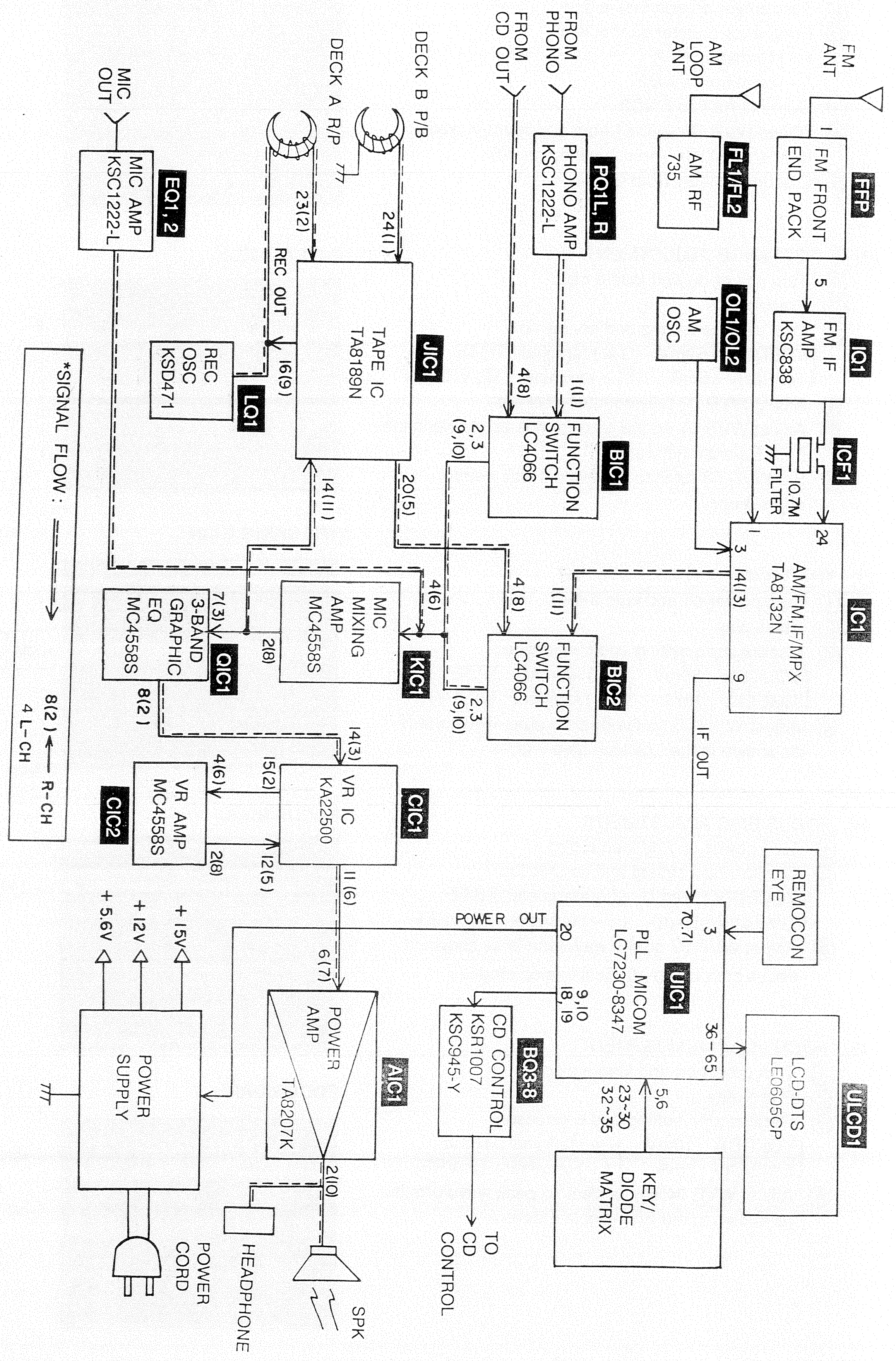




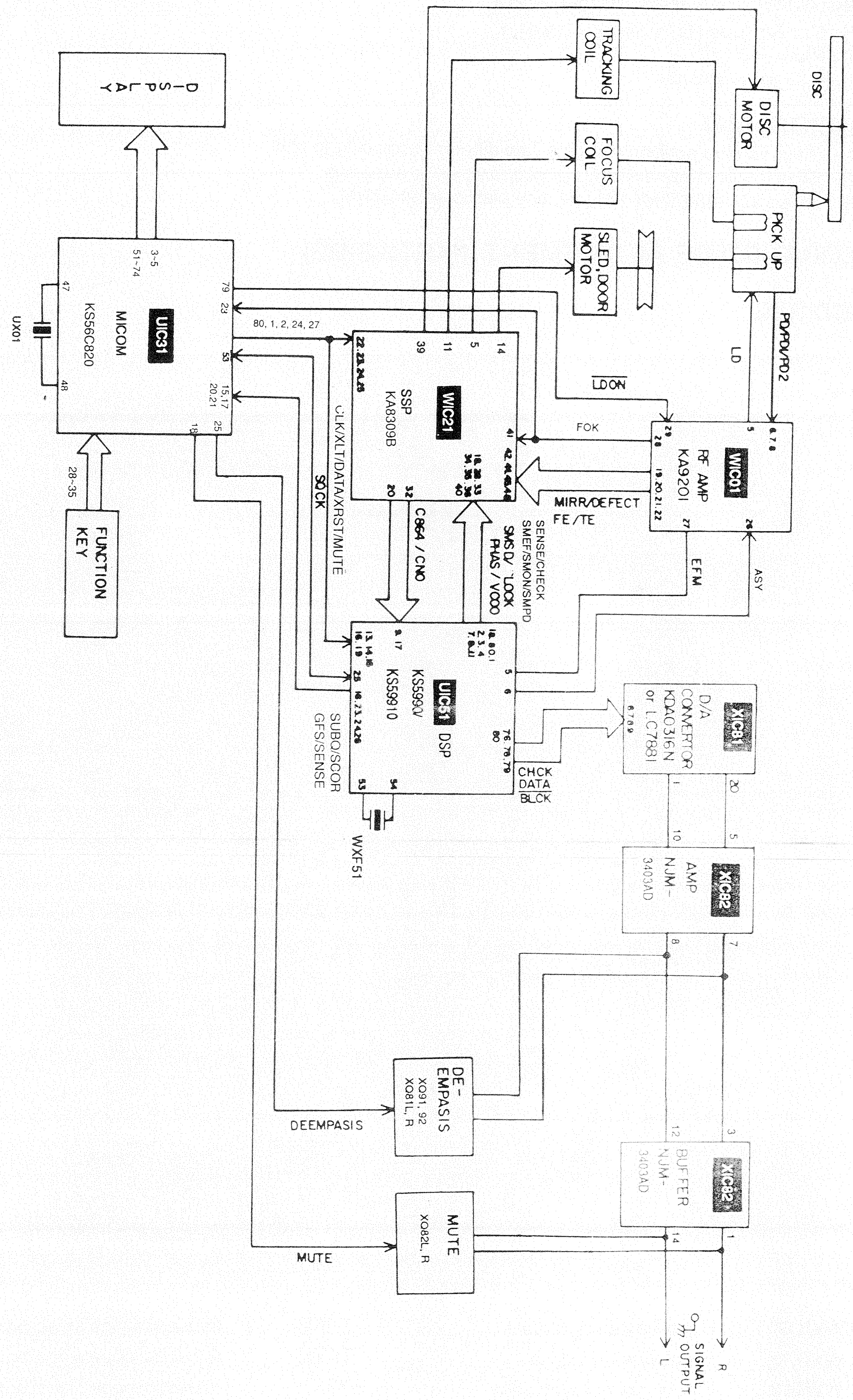
(Pictures taken in 10 : 1 probe)

■ BLOCK DIAGRAM

1. MAIN SECTION


FM ANT
AM LOOP ANT
FROM PHONO
FROM CD OUT
DECK B P/B
DECK A R/P
MIC OUT
FFP
FM FRONT END PACK
FL1/FL2
AM RF 735
PQ1L, R
PHONO AMP KSC1222-L
EQ1, 2
MIC AMP KSC1222-L
JIC1
TAPE IC TA8189N
LQ1
REC OSC KSD471
REC OUT
IQ1
FM IF AMP KSC838
OL1/OL2
AM OSC
ICF1
10.7M FILTER
BIC1
FUNCTION SWITCH LC4066
IC1
AM/FM,IF/MPX TA8132N
BIC2
FUNCTION SWITCH LC4066
KIC1
MIC MIXING AMP MC4558S
QIC1
3-BAND GRAPHIC EQ MC4558S
CIC1
VR IC KA22500
CIC2
VR AMP MC4558S
IF OUT
REMOCON EYE
UIC1
PLL MICOM LC7230-8347
ULCD1
LCD-DTS LE0605CP
KEY/ DIODE MATRIX
BQ3~8
CD CONTROL KSR1007 KSC945-Y
TO CD CONTROL
AIC1
POWER AMP TA8207K
POWER OUT
SPK
HEADPHONE
POWER SUPPLY
POWER CORD
+15V
+12V
+5.6V
*SIGNAL FLOW :
8(2) ← R-CH
4 L-CH

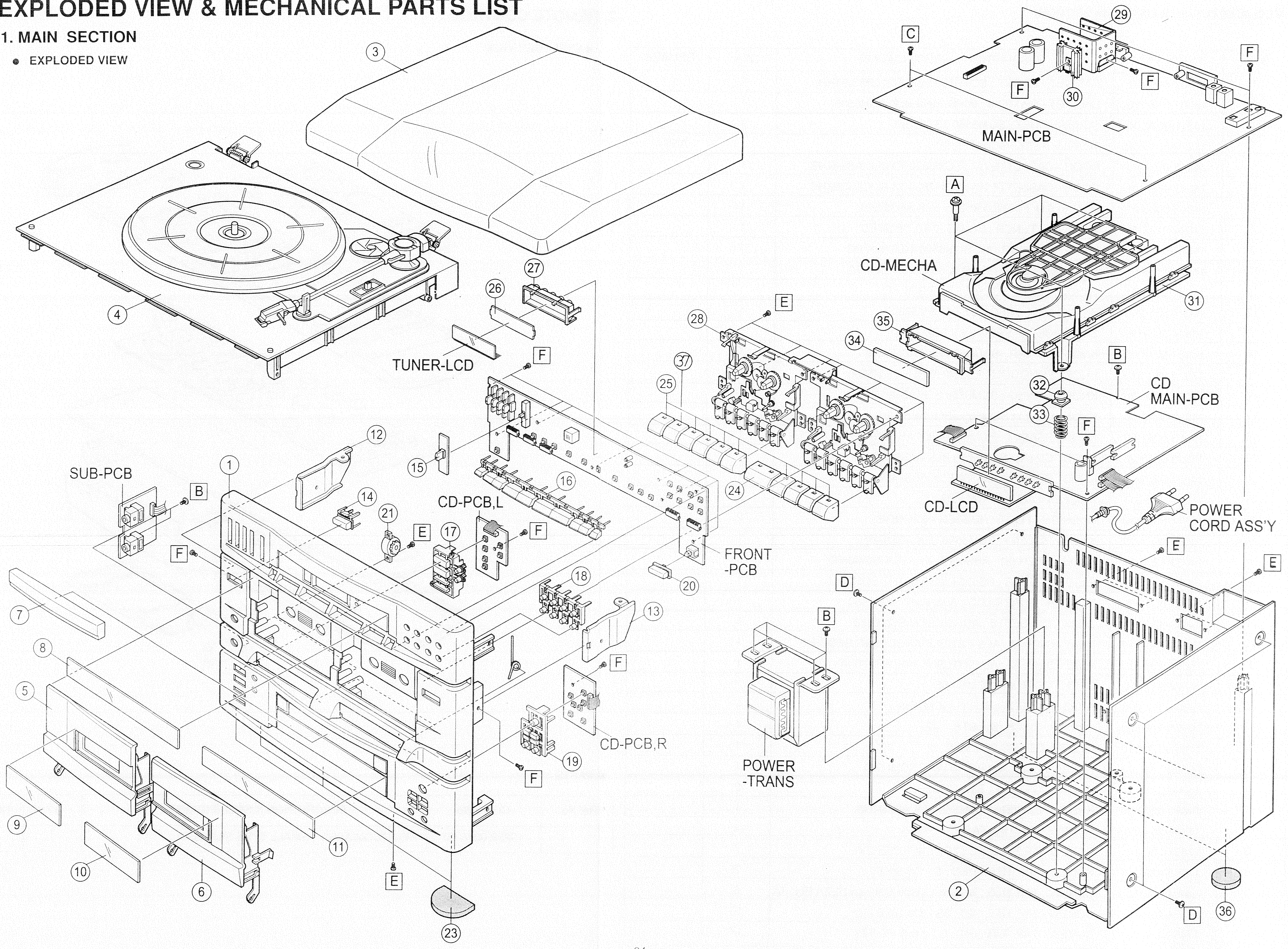
2. CD PLAYER SECTION


DISPLAY
UIC31
MICOM KS56C820
UX01
FUNCTION KEY
WIC21
SSP KA8309B
CLK/XLT/DATA/XRST/MUTE
SQCK
C864 / CNO
SMSD/ LOCK
PHAS / VCOO
SENSE/CHECK
SMEF/SMON/SMPD
MIRR/DEFECT
FE/TE
FOK
LDON
WIC01
RF AMP KA9201
EFM
ASY
LD
PD/PD1/PD2
PICK UP
DISC MOTOR
DISC
TRACKING COIL
FOCUS COIL
SLED,DOOR MOTOR
UIC61
DSP KS5990 KS5910
SUBQ/SCOR
GFS/SENSE
WXF51
CHCK DATA BLCK
XIC81
D/A CONVERTOR KDA0316N or LC7881
XIC82
AMP NJM-3403AD
XIC82
BUFFER NJM-3403AD
DE-EMPASIS XQ91, 92 XQ81L, R
DEEMPASIS
MUTE XQ82L, R
MUTE
R
L
SIGNAL OUTPUT

■ EXPLODED VIEW & MECHANICAL PARTS LIST

1. MAIN SECTION

- EXPLODED VIEW



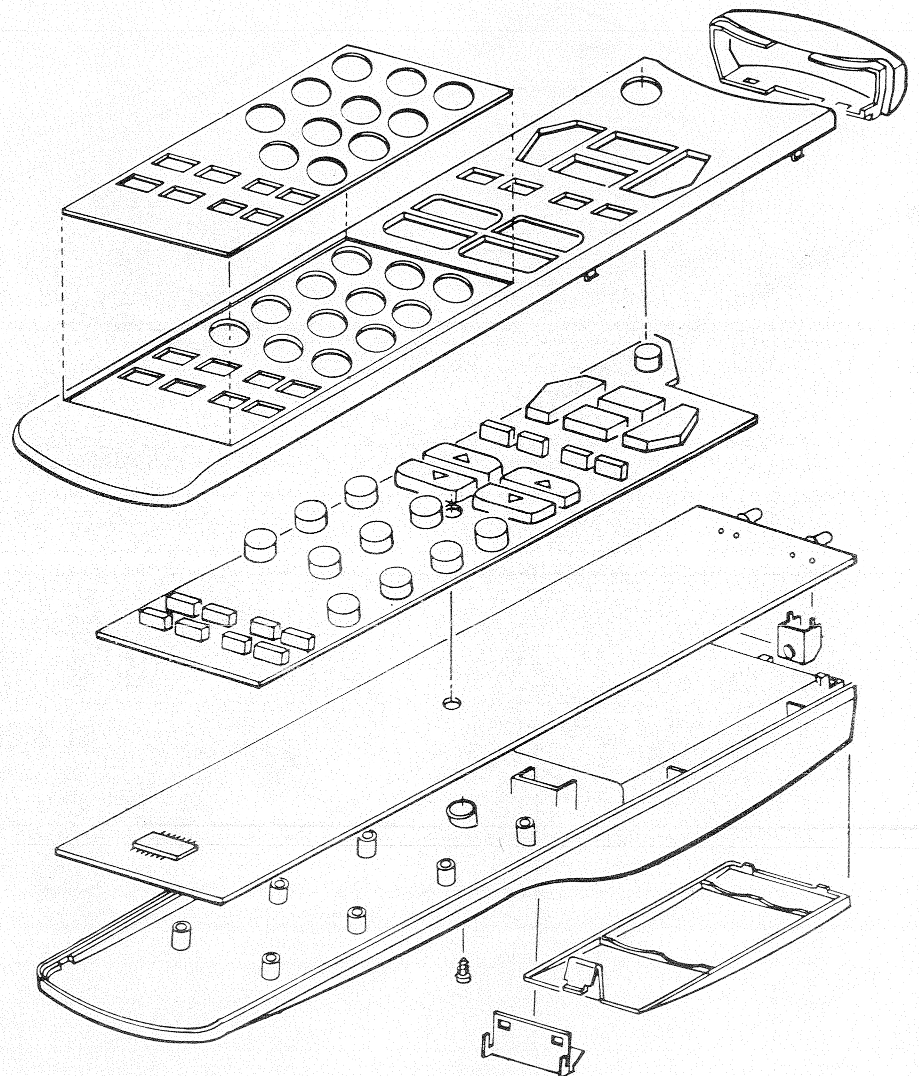
3
4
29
C
F
F
F
30
MAIN-PCB
A
CD-MECHA
31
27
26
TUNER-LCD
F
28
E
35
34
B
37
25
32
CD
MAIN-PCB
33
F
12
15
16
SUB-PCB
1
B
14
CD-PCB,L
21
E
17
F
F
24
CD-LCD
POWER
CORD ASS'Y
FRONT
-PCB
E
E
20
18
D
7
13
B
8
F
5
19
CD-PCB,R
POWER
-TRANS
F
9
11
10
6
E
2
D
36
23

- MECHANICAL PARTS LIST (MAIN SECTION)

Ref No.	CODE- NO	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
1	12000-0114-01	CABINET - FRONT ; SCM6550 T2.5 BLK HIPS 94HB	1	
2	16001-517-110	CABINET - BOTTOM ; MIPS 94HB BLK SCM6500	1	
3	13311-0070-00	COVER - DUST ; SCM6550 T3 GP150	1	
4	15029-502-980	T/TABLE ASSY ; SCM6550/SVC	1	ASSY
5	14042-0054-01	DOOR - CASSETTE (A) ; SCM6550 T3 BLK ABS94HB	1	
6	14042-0055-01	DOOR - CASSETTE (B) ; SCM6550 T3 BLK ABS94HB	1	
7	14043-0056-01	DOOR - CD ; SCM6550 T1.5 BLK ABS94HB	1	
8	14074-0131-01	WINDOW - TUNER ; SCM6550 T0.7 BLK PC	1	
9	14074-0132-01	WINDOW - DOOR (A) ; SCM6550 T0.7 BLK PC	1	
10	14074-0133-01	WINDOW - DOOR (B) ; SCM6550 T0.7 BLK PC	1	
11	14074-0134-01	WINDOW - CD ; SCM6550 T0.7 BLK PC	1	
12	16624-581-210	BKT - SIDE, L ; SECC 0.8T SCM6500	1	
13	16624-581-310	BKT - SIDE, R ; SECC 0.8T SCM6500	1	
14	14083-0278-00	KNOB - POWER ; SCM6550 BLK ABS94HB	1	
15	17624-643-810	KNOB - FUNCTION ; ABS94HB BLK SCM6500	1	
16	14083-0280-00	KNOB - TUNING ; SCM6550 BLK ABS94HB	1	
17	14083-0282-00	KNOB - CD (L) ; SCM6550 BLK ABS94HB	1	
18	14083-0281-00	KNOB - PRESET ; SCM6550 BLK ABS94HB	1	
19	14082-0283-00	KNOB - CD (R) ; SCM6550 BLK ABS94HB	1	
20	14084-0279-00	KNOB - PUSH ; SCM6550 BLK ABS94HB	1	
21	15214-506-011	DAMPER - ASSY ; POM PD790	2	
23	16174-504-210	CUSHION - FOOT ; RUBBER - SPONGE	2	
24	14083-0277-00	KNOB - PLAY (L) ; SCM6550 BLK ABS94HB	1	
25	14083-0276-01	KNOB - DECK (S) ; ABS94HB T1.5 BLK SCM6550	9	
26	17654-571-711	FILTER - TUNER ; PC 0.5T MILKY WHT SCM7800	1	
27	13323-0031-00	HOLDER - TUNER LCD ; ABS WHT SCM7850	1	
28	17159-0045-00	DECK - CASSETTE ; ADR2006FW SCM7800	1	
29	15683-506-710	HEAT - SINK, M ; ALS 2.0T BLK ANODIZING SCM6500	1	
30	15684-509-710	HEAT - SINK, IC ; AL EXTR BLK 40H, RS1700A	1	
31	✻ CMS - 55M	DECK - CD HOME ; CMS - 55	1	
32	16804-517-820	RUBBER - DECK ; BUTYL SCM7550	4	
33	16674-570-320	SPRING - DECK (B) ; STS · #27	4	
34	17654-574-910	FILTER - CD ; PC 0.5T WHT	1	
35	16603-513-310	HOLDER - CD ; ABS 94HB WHT SCM6500	1	
36	16804-521-710	FOOT - CONTACT ; EVA RUBBER	2	
37	14083-0276-00	KNOB - PLAY (S) ; SCM6550 BLK ABS94HB	1	
A	17094-504-930	SCREW - MECHA ; TAP 2S - 3 ✻ 10	4	
B	17558-230-101	SCREW TAP BH SPEC ; 2S - 3 ✻ 10 FEFZY	7	
C	17558-230-101	SCREW - TAP TITE SPEC ; S - 3 ✻ 8 FZY	2	
D	A0102-0011	SCREW - TAP TITE ; BH 3 ✻ 14 SWRCH 18A HEZA BLK TA	6	
E	17458-230-101	SCREW - TAP TITE, BH ; 2S - 3 ✻ 10FE FZY	16	
F	17458-130-081	SCREW - TAP TITE, BH ; B - 3 ✻ 8 FE FZY	17	

2. REMOTE CONTROL

- EXPLODED VIEW

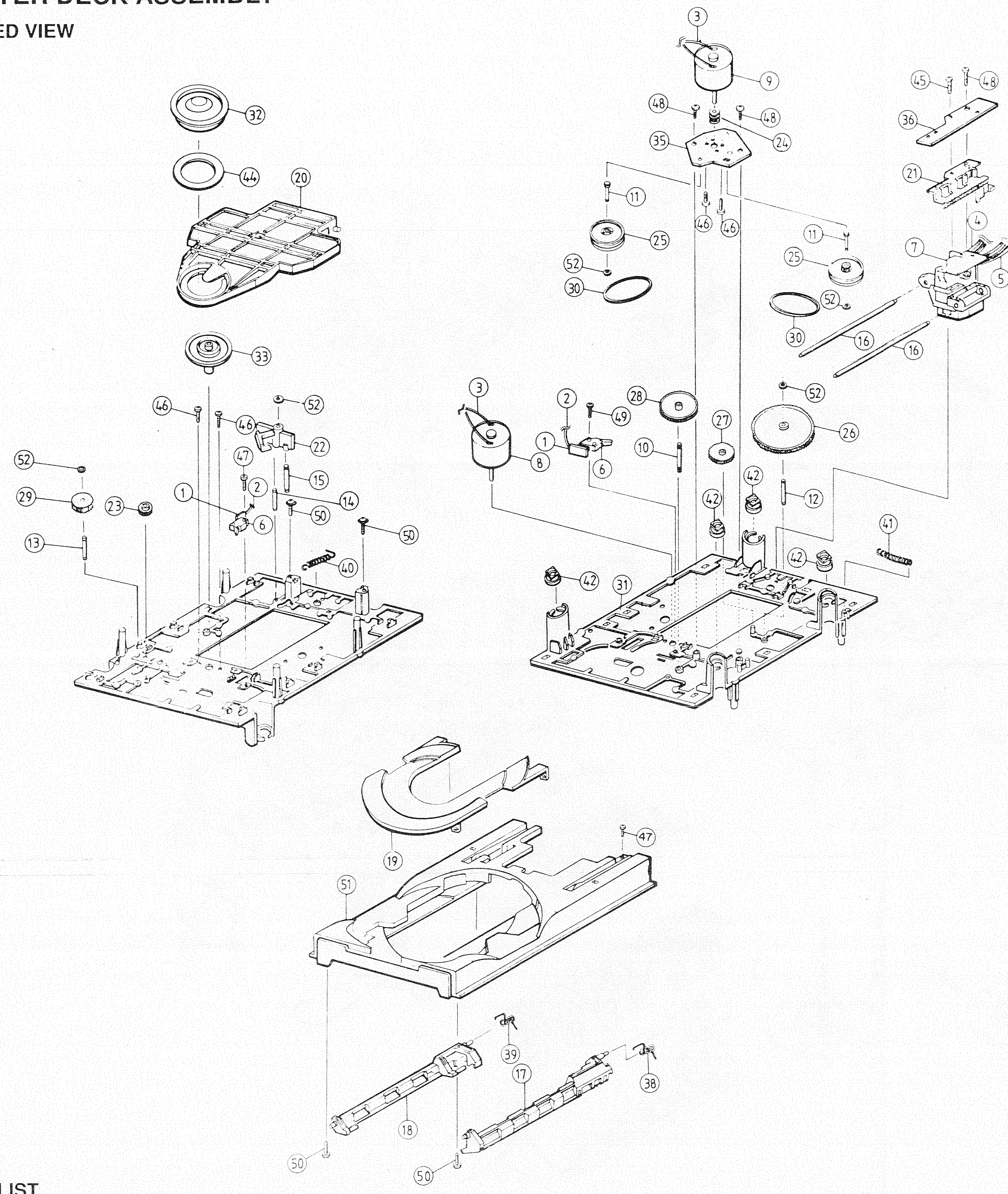


- PARTS

Ref No.	CODE No	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
	19239-0013-00	REMOCON ASS'Y ; SMALL TYPE SCM6550	1	ASS'Y

3. CD PLAYER DECK ASSEMBLY

● EXPLODED VIEW



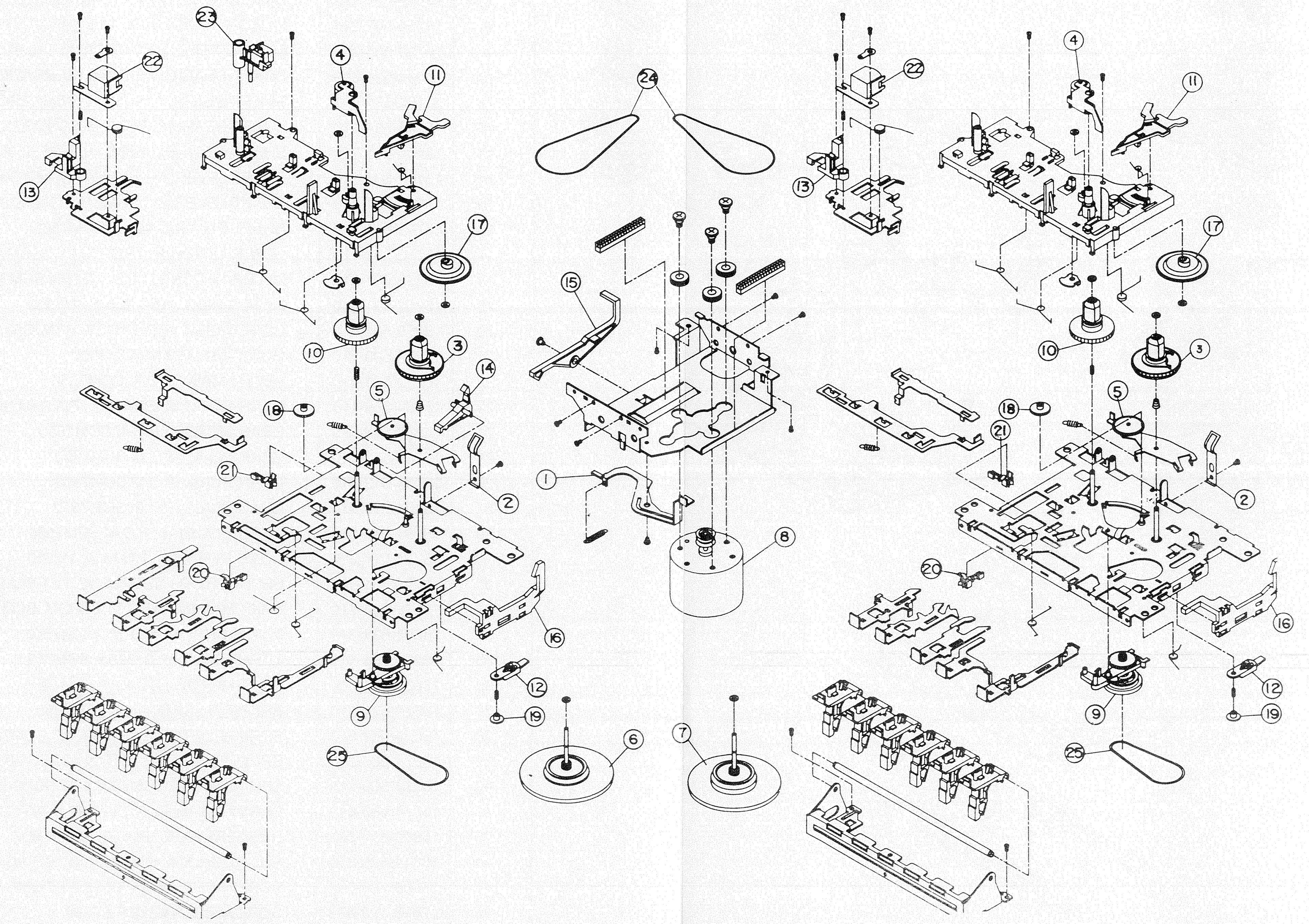
● PARTS LIST

No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
	✳ CMS-55M	DECK-CD(DRAW) ; CMS-55/A	1	
1	13014-582-500	PCB-MICRO SW ; IVO	2	
2	13029-041-130	CONNECTOR ; 4PIN(SW)	1	
3	13029-041-230	CONNECTOR ; 4PIN(MOTOR)	1	
4	13052-901-040	CONNECTOR ; 8PIN(SHIELD)	1	
5	13079-618-125	CONNECTOR ; 8PIN	1	
6	13579-901-010	MICRO-S/W;SSCTL1217A	2	
7	14239-101-110	SAMSUNG OPTICAL HEAD ; SOH89T1	1	
8	14769-057-240	MOTOR-SPINDLE; RF-310T(SHAFT18.9)	1	
9	14769-057-250	MOTOR-FEED; RF-310T(SHAFT10.9)	1	
10	15104-531-010	SHAFT-GEAR(C) ; SUM24L(SERRATION)SCM7550	1	
11	15104-531-110	SHAFT-GEAR(D) ; SUM24L SCM7550L	2	
12	15104-531-210	SHAFT-GEAR(A) ; SUM24L SCM7550L	1	
13	15104-531-220	SHAFT-GEAR(B) ; SUM24L SCM7550L	1	
14	15104-531-310	SHAFT-LEVER(A) ; SUM24L SCM7550	1	
15	15104-531-410	SHAFT-LEVER(B) ; SUM24L SCM7550	1	
16	15104-531-510	SHAFT-PU ; SUS 420J2 SCM7550	2	
17	15252-501-110	LEVER-LIFTER(R) ; P.B.T G15% SCM7550	1	
18	15252-501-210	LEVER-LIFTER(L) ; P.B.T G15% SCM7550	1	
19	15252-501-310	LIFTER-DISC ; ABS BLK SCM7550	1	
20	15252-501-410	COVER-DISC ; P.B.T G15% SCM7550	1	
21	15253-503-310	GUIDE-PU ; P.O.M SCM7550	1	
22	15253-503-410	LEVER-MAIN ; P.O.M SCM7550	1	
23	15254-509-110	GEAR-DOOR SLIDING(A) ; P.A NTR SCM7550	1	
24	15254-513-610	GEAR-MOTOR ; P.O.M SCM7550	1	
25	15254-513-710	GEAR-PU(A) ; P.O.M SCM7550	2	
26	15254-513-810	GEAR-PU(B) ; P.O.M SCM7550	1	
27	15254-513-910	GEAR-PU(C) ; P.O.M SCM7550	1	
28	15254-514-010	GEAR-DOOR(A) ; P.O.M SCM7550	1	
29	15254-514-310	GEAR-DOOR(C) ; P.O.M SCM7550	1	
30	15274-501-520	BELT-MOTOR ; NEOPLENE 1.2T SCM7550	2	
31	16021-504-710	BRKT MAIN(M) ; E.G T1.6+POM SCM7550	1	
32	16604-538-310	PLATE CHUCK ; P.O.M SCM7550	1	
33	16604-538-410	TURN-TABLE ; P.C G20% SCM7550	1	
35	16624-571-410	BRKT-MOTOR ; EG 1.2T SCM7550	1	
36	16624-571-910	BRKT-P/U ; SECC 1.0T SCM7550	1	
38	16674-560-510	SPRING-LIFTER R ; STSW #27 SCM7550	1	
39	16674-560-610	SPRING-LIFTER L ; STSW #27 SCM7550	1	
40	16674-560-710	SPRING-COVER ; STSW # 27 SCM7550	1	
41	16674-560-810	SPRING-LEVER ; STSW #27 SCM7550	1	
42	16804-517-820	RUBBER-DECK ; BUTYL SCM7550	4	
44	16844-520-210	SHEET-CHUCK ; HYMERON T0.5 SCM7550	1	
45	17008-120-063	SCREW-PH ; +M2x6 FE FZB DT-850	1	
46	17098-120-032	SCREW-BH ; +M2x3 FE FZW	4	
47	17108-520-063	SCREW-TAP PH ; 2S-2x6 FE FZB	1	
48	17148-526-081	SCREW-TAP, RH ; 2S-2,6x8 FE FZY	3	
49	17158-220-103	SCREW-TAP, BH ; 2-2x10 FE FZB	2	
50	17558-230-081	SCREW-TAP TITE SPEC ; S-3 x 8 FZY	4	
51	17641-500-810	DOOR-DISC ; ABS BLK SCM7550	1	
52	18314-500-810	RING-O ; POLY SLIDER PI 1.2 SCM7550	5	

* Parts which are not discribed in the CD DECK list are not serviceable.
If you need any other parts except those described, apply CD DECK ass'y.

4. CASSETTE DECK ASSEMBLY

• EXPLODED VIEW (ADR2006FW-MG)

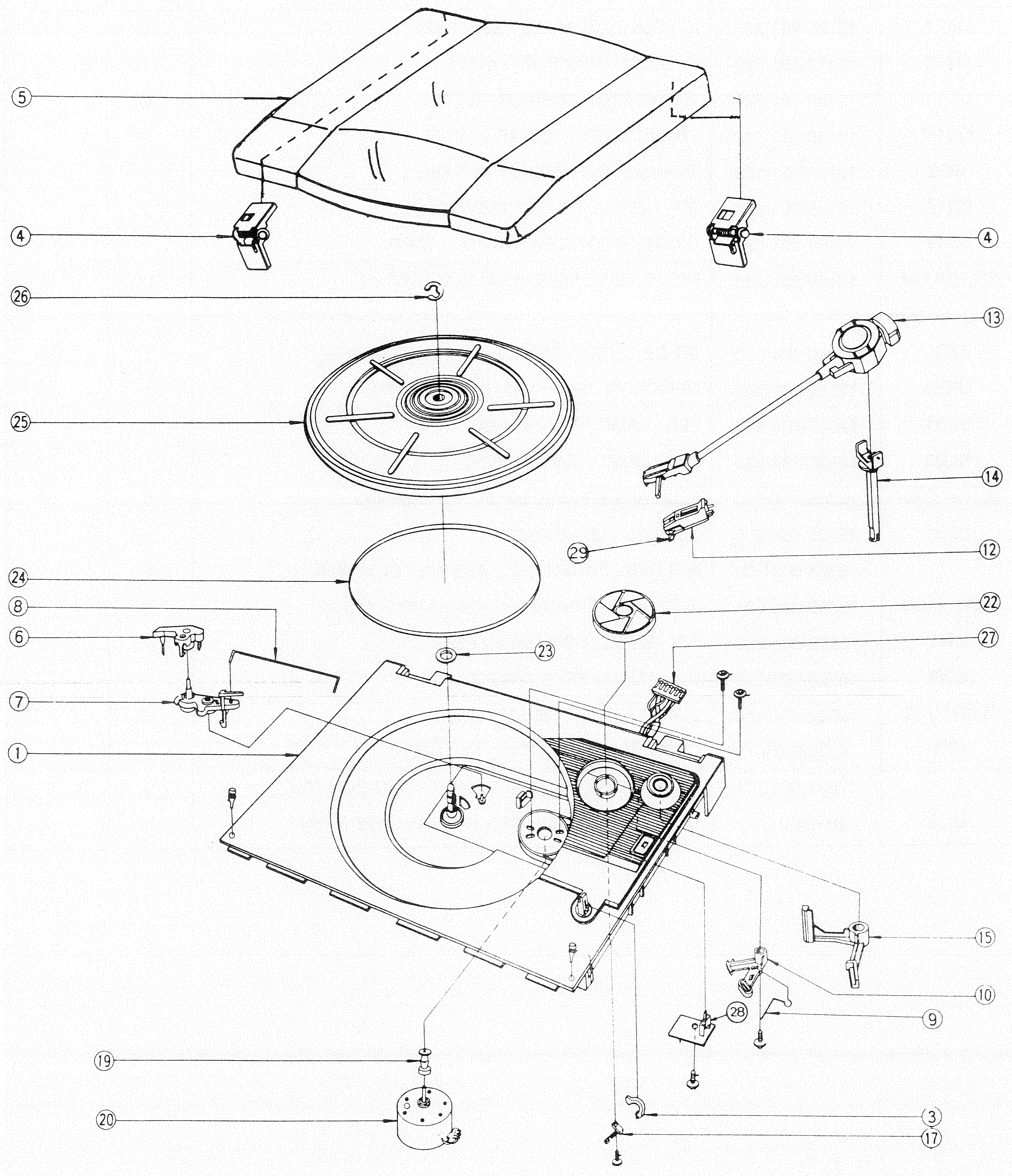


● PARTS LIST

Ref. NO.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
	17159-0049-00	DECK-CASSETTE : ADR2006 FW SCM6550	1	
1	10000-607-186	LEVER-SYNCHRO ; 11134-01280AA	1	
2	10000-607-146	SP PACK ; 51299-02506XC	2	
3	10000-607-101	TAKE UP REEL ASSY ; ADR28-010	2	
4	10000-607-103	PINCH ARM ASSY ; ADR26-001	2	
5	10000-607-104	IDLER ARM ASSY ; ADR02-042	2	
6	10000-607-105	FLYWHEEL GEAR S ASSY ; ADR15-021	1	
7	10000-607-106	FLYWHEEL GEAR D ASSY ; ADR15-022	1	
8	10000-502-020	MOTOR ; EG530YD2B	1	
9	10000-607-108	FR ARM ASSY	2	
10	10000-607-109	SUPPLY REEL GEAR ASSY	2	
11	10000-607-117	ARM-SENSOR 11102-00530AA	2	
12	10000-607-111	PAUSE LOCK CAM	2	
13	10000-607-113	HEAD BASE M	2	
14	10000-607-145	REC SAFETY LEVER ; 11134-01000AA	1	
15	10000-607-184	RELEASE LEVER ; 11134-01240AA	1	
16	10000-607-160	LEVEL EJECT(F) ; 11134-01220AA	2	
17	10000-607-114	CAM GEAR	2	
18	10000-607-115	F.F GEAR ; 11128-00055AA	2	
19	10000-607-116	PAUSE CAP ; 11116-00011AA	2	
20	10000-607-178	LEAF SW(MAIN) ; MSW1541XACV	2	
21	10000-607-179	LEAF SW(REC)MSW1716CV	1	
22	10000-523-008	R/P HEAD ; MS15R-AA2N1	2	
23	10000-607-162	ARM-MAGNETIC ; 11102-00520AA	1	
24	10000-607-159	BELT MAIN ; 59.7PI X 1.0T	2	
25	10000-607-156	BELT SUB ; 34.7 PIX 1.0T	2	
26	10000-607-128	BUTTON KNOB 11133-00010AA	12	

5. TURN TABLE

● EXPLODED VIEW



● MECH PARTS LIST

No.	CODE No.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
	15029-502-980	T/TABLE ASSY	SCM 6550/SVC	1	
1	10000-451-040	CABINET - TOP	PM00010, M13000 TV	1	
3	10000-451-041	LOCKER - ARM	PM40230, ACETAL	1	
4	10000-451-004	HINGE ASS'Y	PA40091	2	
5	13311-0070-00	DUST COVER	PM20370, M13000 TV	1	
6	10000-451-042	PLATE - CLUTCH	PM40211, ACETAL	1	
7	10000-451-043	GUIDE - CLUTCH	PM40221, ACETAL	1	
8	10000-451-008	LINK - ACTUATING	PZ40171,STS	1	
9	10000-451-009	SPRING - ADJUST	PZ40162,STS	1	
10	10000-451-044	LEVER - SWITCH	PM40051, ACETAL	1	
12	10000-451-051	CARTRIDGE	CZ-800-301	1	
13	10000-451-045	TONE ARM ASS'Y	PM20101, ABS	1	
14	10000-451-046	HOLDER - ARM	PM40730, ACETAL	1	
15	10000-451-050	FEED ARM	PM30151, ACETAL	1	
17	10000-451-017	SWITCH - LEAF	LSB61123A3	1	
19	10000-451-019	PULLEY - MOTOR	PL40170, MBsBDI	1	
20	10000-451-049	MOTOR	MMI-6T 2RWK1	1	
22	10000-451-047	ADAPTER -EP	PM40030, ABS	1	
23	10000-451-023	SPACER	ø 7.2 x ø 15xT0.5, PE	1	
24	10000-451-024	BELT	PP4029, RC - WRT	1	
25	10000-451-048	PLATTER	PM20110, M13000TV	1	
26	10000-451-026	E - RING	E - 6	1	
27	10000-451-027	CONNECTOR -5P	SC25 - 05HG	1	
28	10000-451-028	SLIDE SWITCH	DSS - 1123	1	

* Parts which are not discribed in the TURN TABLE list are not serviceable.
If you need any other parts except those described, apply TURN TABLE assembly.

■ ELECTRICAL PARTS LIST

1.MAIN SECTION

⚠ indicates parts for circuit safeguarding purposes. Therefore, when replacing, be sure to use specified parts only.

LOCATION NO.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
RR3	11048-477-109	R - METAL OXIDE ; RS1T 1-J MINI TYPE	1	
RR5	11048-477-271	R - METAL OXIDE ; RS1T 270-J MINI TYPE	1	⚠
RR2	11048-477-681	R - METAL OXIDE ; RS1T 680-J MINI TYPE	1	⚠
RR11	11048-577-221	R - METAL OXIDE ; RS2T 220-J MINI TYPE	1	⚠
LSR1	11249-102-104	VR - SEMI TAPE - H ; DVN - DJA A03B23 (2K)	1	
RC1	11607-104-222	C - ELECTROLYTIC ; MC SMS 25V 2200M (16X25)	1	⚠
RC2	11607-105-222	C - ELECTROLYTIC ; MC SMS 35V 2200M (16X31)	1	⚠
RC8	11608-102-104	C - ELECTROLYTIC ; SMS T 10V100M (5X11)	1	
AC6L, 6R	11608-401-510	C - ELECTROLYTIC ; SMS 16V 1000M (10X20)	2	
RIC1	12108-401-690	IC - REGULATOR ; MC 7812C/KTA7812P	1	⚠
JIC1	12109-401-840	IC - PRE/REC ; TA8189N	1	
AIC1	12119-101-290	IC - POWER AMP ; TA8207K	1	

LOCATION NO.	CODE No	DESCRIPTION & SPECIFICATION	Q'TY	REMAK
IIC1	12119-101-370	IC IF - MPX ; TA8132N	1	
KIC1, CIC2	12119-401-630	IC - DUAL OPAMP ; MC4558S	2	
BIC1, 2	12119-401-720	IC - SWITCHING ; TC 4066BP	2	
RQ1	12139-201-100	TRANSISTOR ; KSA 928A - Y	1	⚠
LQ6	12149-101-520	TRANSISTOR ; KSA 733 - Y, TAPE	1	
ZQ4	12149-101-560	TRANSISTOR ; KSA 708 - Y, TAPE	1	
EQ1,2,PQ1L, 1R,QQ5,6,FQ2	12149-301-820	TRANSISTOR ; KSC 1222 - L, TAPE	7	
IQ1	12149-301-860	TRANSISTOR ; KSC 838 - 0, TAPE	1	
ZQ6,7,JQ3L,3R,RQ2, JQ4L,4R,7L,7R,JQ6, LQ4,5,EQ3,ZQ3,2, BQ7,8,UQ3,OQ1,2,3,4	12149-301-900	TRANSISTOR ; KSC 945 - Y, TAPE	22	
RQ5	12149-301-910	TRANSISTOR ; KSC 2331 - Y, TAPE	1	
JQ1L,1R,2L,2R	12149-301-930	TRANSISTOR ; KSC 1008 - Y, TAPE	4	
LQ1,RQ4	12149-401-150	TRANSISTOR ; KSC 471 - Y, TAPE	2	
LQ2,3	12159-301-330	TR - DIGITAL ; KSR 2003, TAPE	2	
JQ5L,5R	12159-301-780	TR - DIGITAL ; KSR 1003	2	
BQ3,4,5,6, IQ2,3,5,ZQ5	12159-301-800	TR - DIGITAL ; R1007/108M/124XS	8	
IQ4,FQ1,ZQ1	12159-301-810	TR - DIGITAL ; KSR 2007	3	
RD1,2,3,4,5,6,LD14,15	12169-201-080	DIODE - RECTIFIER ; 1N 4001, TAPE	8	⚠
BD5,6,FD2,ID1,ZD1, ~10,JD1,2,3,RD9, 10,LD1~13,UD19	12169-301-290	DIODE - SW ; 1SS53/1N4148, CT :6PF	33	
CZD1	12169-403-320	DIODE - ZENER ; UZ 9.1BM/RD9.1E 0.5W	1	⚠
ZZD1	12169-403-640	DIODE - ZN ; 400MW 6.16 - 6.40 UZ - 6.2BSC	1	⚠
RZD2	12169-403-710	DIODE - ZN ; 500MW UZ - 10BH	1	⚠
IZD1,RZD1	12169-404-110	DIODE - ZN ; RD5.6FB/UZP - 5.6B	2	⚠
FD1	12169-501-005	DIODE ; KV 1236	1	
JL1R,1L	12429-306-113	COIL - BIAS TRAP ; FB895 - 85A	2	
LL2,RL1	12429-411-100	COIL - CHOKE ; AX 10UH - 02 (LA02NA100K)	2	
IL1	12619-030-005	COIL - CAN ; AC 450KHz YEL	1	
OL2	12619-047-202	COIL - CAN ; AD 510UH 220KHz BRN	1	
OL1	12619-047-203	COIL - CAN ; AD 110UH 796KHz RED	1	
FL1	12619-561-000	COIL - MW ANT ; MURHN - K5268KAI 250MH	1	
FL2	12619-566-913	COIL - TRANS TEN CAN ; AF 2.4MH FLW RED	1	
LL1	12619-573-071	COIL - CAN ; AG 2.2MH F NON BLK	1	
	13303-500-620	TERMINAL - BOARD PUSH, N ; 4P PUSH HOOK	1	
	13304-504-010	TERMINAL ANT BOARD ; AQ2 - 1064	1	
FEP	14519-815-010	TUNER FM ; CEA9 735H	1	
ICF2	14529-304-610	FILTER CERAMIC ; AHCM 2-450BL	1	
ICF3	14529-601-040	CERAMIC - FILTER ; CDA 10.7MG 18-A	1	
ICF4	14539-504-050	CERAMIC - RESONATOR ; CSB 456 F18	1	
ICC5I,5R	A1102-0148	C - FILM 922 P 100V T 104 - J/C - M 365	2	
CIC1	A4012-0013	IC - ELEC VOLUME ; KS2250 DIP AUDIO ELEC	1	
RQ3	A4050-0037	TR - GENERAL ; KTC 4369 V 15W 3A 100MHZ 30	1	⚠

2. FRONT SECTION

LOCATION NO.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
UIC 1	12109-401-350	IC - PLL μ - COM ; LC 7230 - 8347	1	
QIC 1	12119-401-630	IC - DUAL OPAMP ; MC 4558S	1	
UQ1,2	12149-101-520	TRANSISTOR ; KSA733 - Y, TAPE	2	
CQ1,2	12149-301-900	TRANSISTOR ; KSC945- Y, TAPE	2	
BQ3	12149-401-150	TRANSISTOR ; KSD471 - Y, TAPE	1	
BQ1,2	12159-301-800	TR - DIGITAL ; R 1007/108M/124XS	2	
UD15	12169-201-080	DIODE - RECTIFIER ; 1N 4001, TAPE	1	⚠
CD2,3,BD1,2,3,4, MD10,11,12,13,4,7,8	12169-301-290	DIODE - SW ; 1SS53/1N4148 CT: 6PF	13	
BZD1	12169-404-850	DIODE ZENER ; 500MW UZ - 10BSA TAPING	1	⚠
URE1	12199-101-240	REMOCON - EYE ; MM - 001M (16M/M)	1	
BLD1	12309-104-410	LED - LAMP ; SLV - 31 MC3	1	
BLD2	12309-104-430	LED - LAMP ; SLV - 31 VC3	1	
BLD3.4.5.6.7	12309-117-520	LED - AMBER ; SEL 3913K TP5 TAPPING	5	
LCD1	12339-104-650	LCD DTS ; LE - 0605CP	1	
	13323-0031-00	HOLDER - TUNER LCD ; ABS WHT SCM 7850	1	
AJK1, EJK1	13339-201-501	JACK - HEADPHONE ; SHQ9085 - 01 - 010	2	
SW1	13519-201-280	SW - SLIDE ; SSSU ø2 4N AO11	1	
SW2	13529-203-930	SW - PUSH ; SPEA 122S Cø11	1	
TSW1 - 19	13559-901-100	SWITCH - TACT ; SKHV 10910A	19	
UX1	14539-003-010	CRYSTAL - UNIT ; HC18 - U4.5MHZ	1	
	17654-571-711	FILTER - TUNER ; PC 0.5T MILKY WHT SCM 7850	1	
UC5	B1104-0170	C - ELEC ; AC 310 - 502G 473Z5R5 CA92 W5.5V	1	

3. CD PLAYER SECTION

LOCATION NO.	CODE No.	DESCRIPTION & SPECFICATION	Q'TY	REMAK
AC53	11609-103-222	C - ELECTROLYTIC ; SHL 16V 2200M (12.5X16)	1	
XIC81	12109-303-150	IC - DAC ; KDA0316LD/BULK	1	
WIC61,62	12119-202-920	IC - BTL DRIVER ; KA9257	2	
UIC51	12119-203-770	IC - DS PROCESSOR ; KS5990/KS5990B	1	
WIC01	12119-203-790	IC - RF AMP ; KA 9201	1	
XIC82	12119-401-210	IC - OP AMP ; NJM3403AD	1	
AIC51	12119-601-770	IC - REGULATOR ; MC 7805	1	⚠
WQ01	12149-202-050	TRANSISTOR ; KSB 564A - Y	1	
XQ82L,82R, UQ03,XQ81L,R	12149-301-900	TRANSISTOR ; KSC 945 - Y, TAPE	5	
WQ92	12159-301-330	TR - DIGITAL ; KSR2003, TAPE	1	
UQ01,WQ21,22,91	12159-301-780	TR DIGITAL ; KSR 1003	4	
WQ23	12159-301-800	TR - DIGITAL ; R1007/108M/124XS	1	
UQ02	12159-301-810	TR DIGITAL ; KSR 2007	1	
XD81,UD01~09, UD24,25,26,27	12169-301-400	DIODE - SWITCH ; 1N 4148M ROHM (SMALL)	14	
UD12~19	12309-117-520	LED - AMBER ; SEL 3913K TP5 TAPPING	8	
LCD	12339-104-800	LCD - CD ; MAX330 LE - 0647AP	1	
UK01~13	13559-901-100	SWITCH - TACT ; SKHV 10910A	13	
UX01	14534-504-043	CERAMIC - RESONATOR ; CSA 4.00MG - TFOIS	1	
WXF51	14539-401-050	X - TAL ; HC 18U 16.9344 MHZ	1	
	16603-513-310	HOLDER - CD ; ABS 94HB WHT SCM6500	1	
	17654-574-910	FILTER - CD ; PC 0.5T WHT	1	
UIC31	A4002-0136	IC - MCU ; KS56C820 - 40 SCM7850 QFP	1	
WIC21	A4012-0105	IC - LINEAR ; KA 8309B QFP	1	

4. GENERAL SECTION

1) AC110V/220V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-223-210	TRANS-POWER ; EI60 x 30 110/220V KS	1	⚠
V/SELECTOR	13599-502-020	VOLTAGE SELECTOR ; PCB00120354 110V/220V	1	⚠
POWER/CORD	13059-808-246	POWER CORD ASSY ; KKP-4 19C/B-161 W/S	1	!
FUSE (RF1)	14709-241-110	FUSE ; T 250V 0.315A 20EUR	1	!
FUSE (RF2)	14709-241-140	FUSE ; T 250V 0.5A 20 EUR	1	!

2) AC 120V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-223-220	TRANS-POWER ; EI60 x 30 120V/UL	1	!
P/CORD	13059-808-301	POWER CORD ASSY ; KKP-8 WSPT-2 7FT 270M/M W/S	1	(OPTION) !
P/CORD	13053-806-313	POWER CORD ASSY ; KKP-10 SPT-1 #18 7FT 220M/M W/S	1	(OPTION) !
FUSE (RF2)	14709-241-140	FUSE ; T 250V 0.5A 20 EUR	1	!

3) AC 230V UNIT

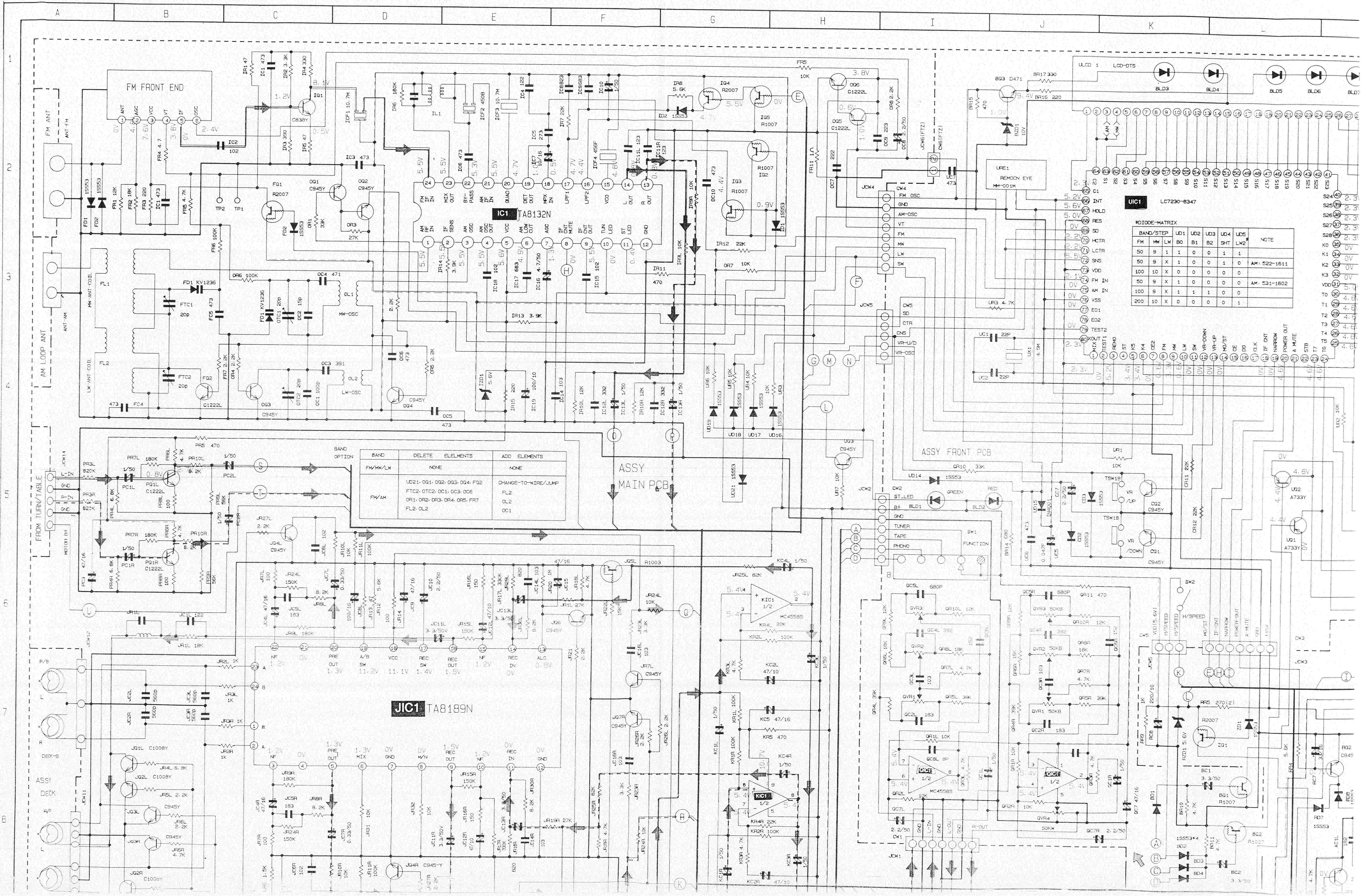
LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-223-230	TRANS-POWER ; EI60 x 30 230V/EUR	1	!
P/CORD	13059-808-246	POWER CORD ASSY ; KKP-4 19C/B-161 W/S 220M/M	1	!
FUSE (RF1)	14709-241-110	FUSE ; T250V 0.315A 20 EUR	1	⚠
FUSE(RF1)	B3065-0113	FUSE ; T250V 250mA20EUR (SEH only)	1	

4) AC 240V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-223-240	TRANS-POWER ; EI60 x 30 240V/BS	1	!
P/CORD	A6006-0172	POWER-CORD ; KP-610 GTBS-2F(0.75) 1.63M BLK	1	!
FUSE (RF1)	14709-240-110	FUSE ; T250V 0.315A 20 EUR	1	!

■ SCHEMATIC DIAGRAM

1. MAIN SECTION


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
FM ANT
ANT FM
AM LOOP ANT
ANT AM
FM FRONT END
ANT
AGC
VCC
VT
IF
OSC
IC1 TA8132N
UIC1 LC7230-8347
JIC1 TA8189N
KIC1 1/2 MC4558S
QIC1 1/2 MC4558S
URE1 REMOCN EYE MM-001M
ULCD 1 LCD-DTS
BLD3
BLD4
BLD5
BLD6
ASSY MAIN PCB
ASSY FRONT PCB
FROM TURN TABLE
ASSY DECK
DECK-B
P/B
R/P
MW ANT COIL
LW ANT COIL
MW-OSC
LW-OSC
FUNCTION
SW1
SW2
H/SPEED
ST LED
GREEN
RED
TUNER
TAPE
PHONO
CD
BAND OPTION

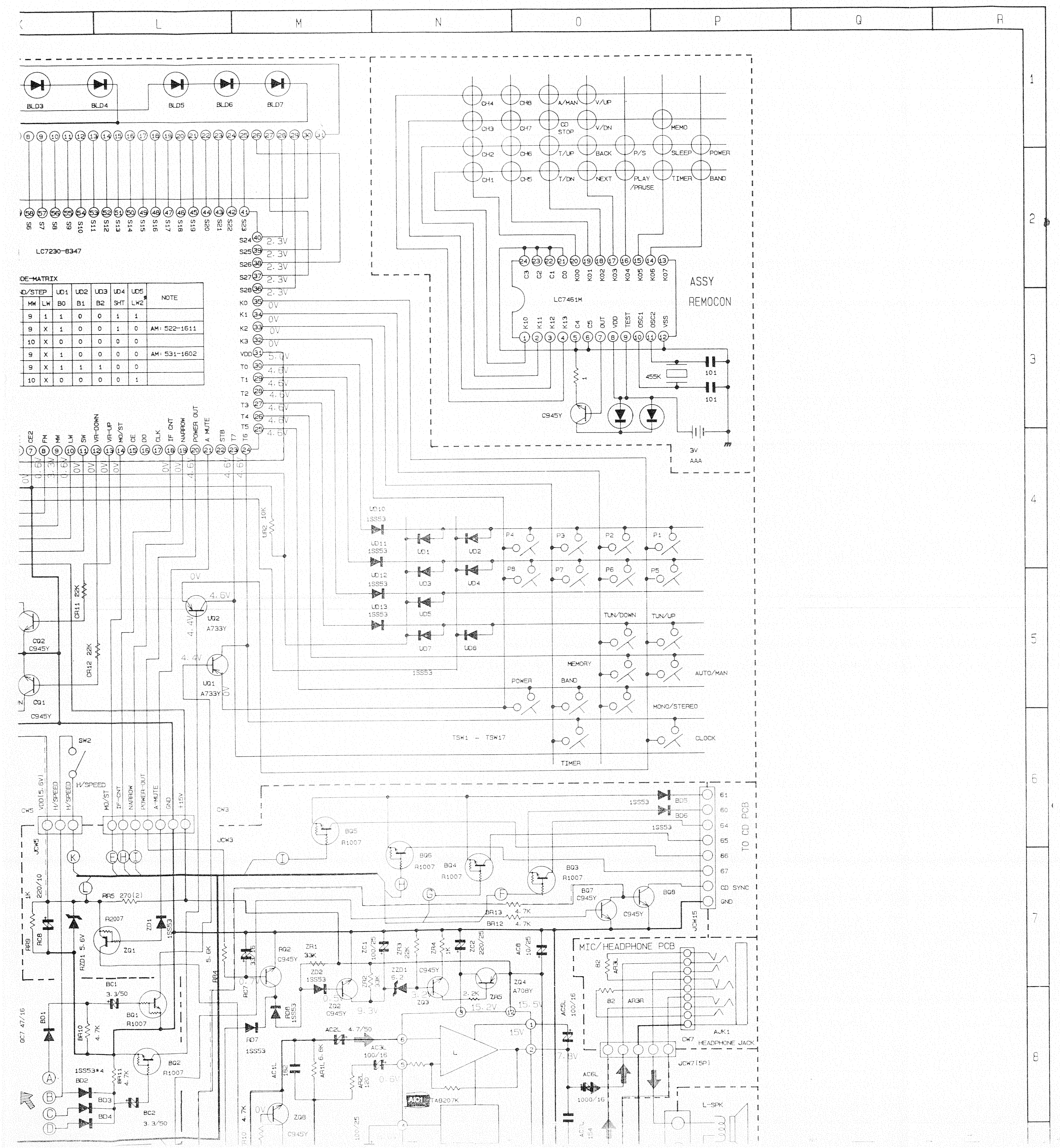
*DIODE-MATRIX

BAND/STEP			UD1	UD2	UD3	UD4	UD5	NOTE
FM	MW	LW	B0	B1	B2	SHT	LW2	
50	9	1	1	0	0	1	1	
50	9	X	1	0	0	1	0	AM: 522-1611
100	10	X	0	0	0	0	0	
50	9	X	1	0	0	0	0	AM: 531-1602
100	9	X	1	1	1	0	0	
200	10	X	0	0	0	0	1	

BAND OPTION

BAND	DELETE ELELMENTS	ADD ELEMENTS
FM/MW/LW	NONE	NONE
FM/AM	UD21, OQ1, OQ2, OQ3, OQ4, FQ2 FTC2, OTC2, OC1, OC3, OC6 OR1, OR2, OR3, OR4, OR5, FR7 FL2, OL2	CHANGE-TO-WIRE/JUMP FL2 OL2 OC1

1. The unit of all resistors is Ω unless otherwise stated. (K : KΩ , M : MΩ). All resistors are 1/4W or 1/8W unless otherwise stated.
2. The unit of all capacitors is μF unless otherwise stated. (P : PF).
3. The schematic diagram is subject to change upon improvement without prior notice.
4. ⚠ indicates parts for circuit safe guarding purposes. Therefore, when replacing, be sure to use specified parts only.


L
M
N
O
P
Q
R
1
2
3
4
5
6
7
8
BLD3
BLD4
BLD5
BLD6
BLD7
LC7230-8347
CH4
CH8
A/MAN
V/UP
CH3
CH7
CD STOP
V/DN
MEMO
CH2
CH6
T/UP
BACK
P/S
SLEEP
POWER
CH1
CH5
T/DN
NEXT
PLAY /PAUSE
TIMER
BAND
LC7461M
ASSY REMOCON
455K
101
C945Y
3V AAA
CE2
FM
MW
LW
SW
VR-DOWN
VR-UP
MO/ST
CE
DO
CLK
IF CNT
NARROW
POWER OUT
A MUTE
STB
T7
UQ2 A733Y
UQ1 A733Y
CQ2 C945Y
CQ1 C945Y
TUN/DOWN
TUN/UP
MEMORY
AUTO/MAN
POWER
BAND
MONO/STEREO
CLOCK
TIMER
TSW1 ~ TSW17
SW2
W/SPEED
CW3
JCW3
TO CD PCB
CD SYNC
GND
MIC/HEADPHONE PCB
HEADPHONE JACK
AJK1
L-SPK
TA8207K

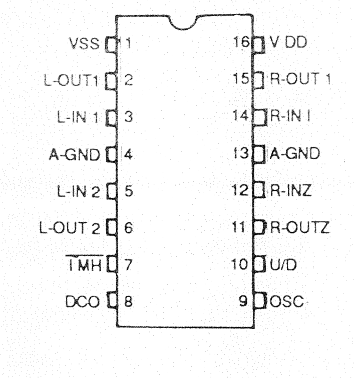
ND/STEP MW	LW	UD1 B0	UD2 B1	UD3 B2	UD4 SHT	UD5 LW2	NOTE
9	1	1	0	0	1	1	
9	X	1	0	0	1	0	AM: 522-1611
10	X	0	0	0	0	0	
9	X	1	0	0	0	0	AM: 531-1602
9	X	1	1	1	0	0	
10	X	0	0	0	0	1	

1. MAIN

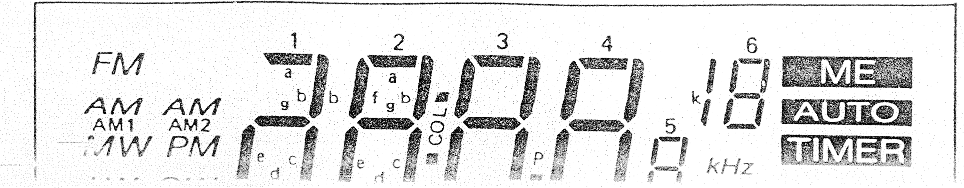
● IC	LOCATION
RIC1	N11
JIC1	D7
AIC1	N8
IIC1	E2
KIC1, CIC2	H8, L9
BIC1,2	H9, I9
CIC1	K10
UIC1	K2
QIC1	I7

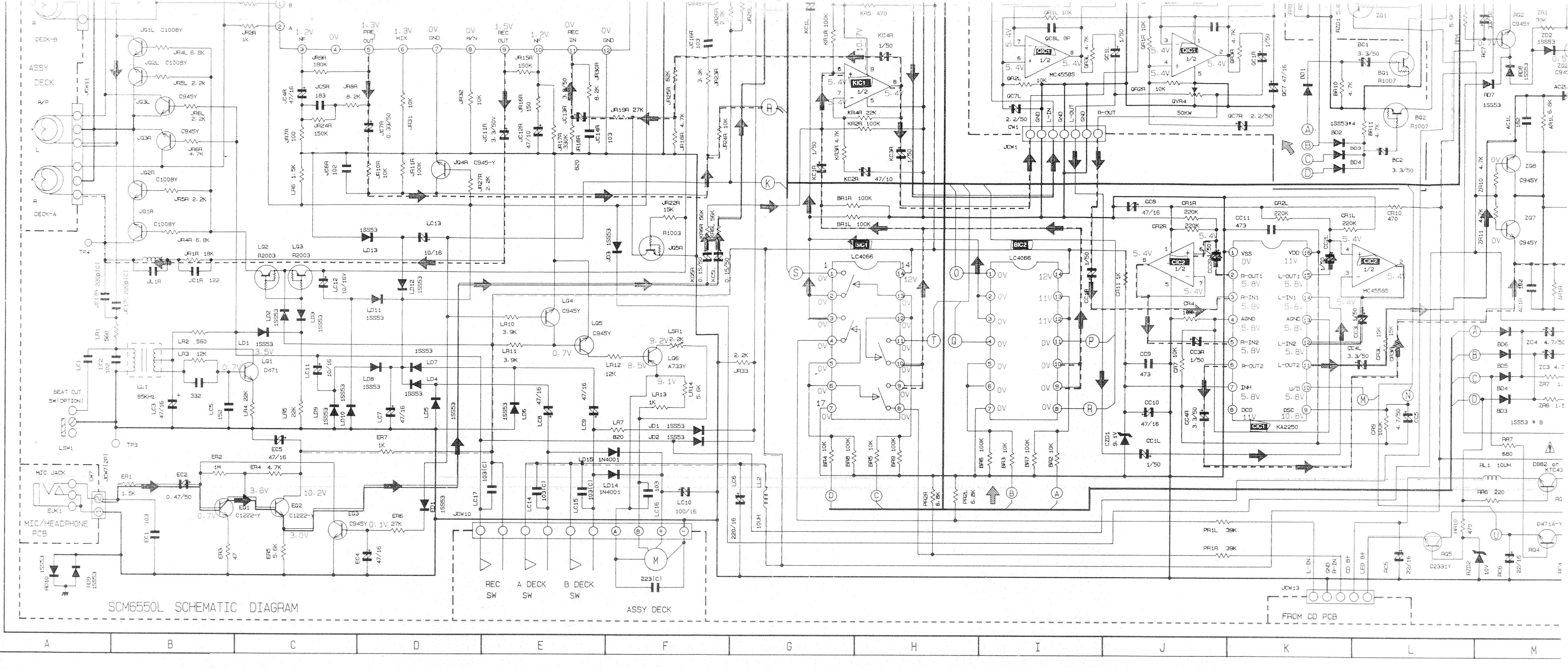
● TR	LOCATION
RQ1	N11
LQ6	F10
ZQ4	N7
EQ1,2,PQ1L,R	C11,B11,B5, 6,
OQ5,6, FQ2	H1, C2
IQ1	C1
ZQ6,7,JQ3L,R,RQ2,	M9, B8
JQ4L,R,7L,R,JQ6,	C5, D8
LQ4,5,EQ3, ZQ3,2,	E10, C11, N7, M7
BQ7,8,UQ3,OQ1,	O7, H5, C1
2,3,4	D2, C4, D4
RQ5	L11
JQ1L,R,2L,2R	B7, B9, B8, B9
LQ1, RQ4	C10, M11
LQ2,3	C9
JQ5L, 5R	F6, F9
BQ3~6, IQ3,5	O7,N7,M6,N7,G2,G1
ZQ5	N10
IQ4, FQ1, ZQ1	G1, C2, L7
RQ3	M11
UQ1,2	L5
CQ1,2	K5
BQ3	O7
BQ1,2	L8

● TC9153AP (ELECT. VR IC) : CIC1


VSS 1
L-OUT1 2
L-IN 1 3
A-GND 4
L-IN 2 5
L-OUT 2 6
TMH 7
DCO 8
16 V DD
15 R-OUT 1
14 R-IN I
13 A-GND
12 R-INZ
11 R-OUTZ
10 U/D
9 OSC

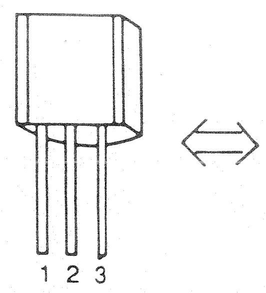
● LE-0605CP (TUNER LCD) : ULCD1


FM
AM AM
AM1 AM2
MW PM
1
2
3
4
6
COL
k
kHz
ME
AUTO
TIMER


SCM6550L SCHEMATIC DIAGRAM
DECK-B
ASSY DECK
R/P
DECK-A
MIC JACK
MIC/HEADPHONE PCB
BEAT CUT SW(OPTION)
LC4066
MC4558S
KA2250
REC SW
A DECK SW
B DECK SW
ASSY DECK
FROM CD PCB
A
B
C
D
E
F
G
H
I
J
K
L
M

● TR & DIODE

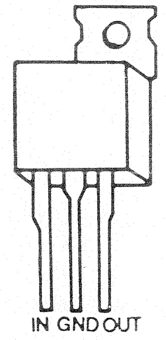
1)



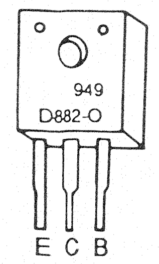
● IC & TR INTERNAL DIAGRAM

TR	1	2	3
KSR2003, KSR1003, KSR1007 KSC2331, KSR2007, KSA928	E	C	B
KSC945, KSC1008, KSC1222 KSA733, KSC838, KSD471 KSA708, KSB564	E	B	C

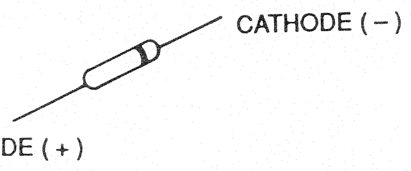
2) MC7805C
MC7812C/MC7812P



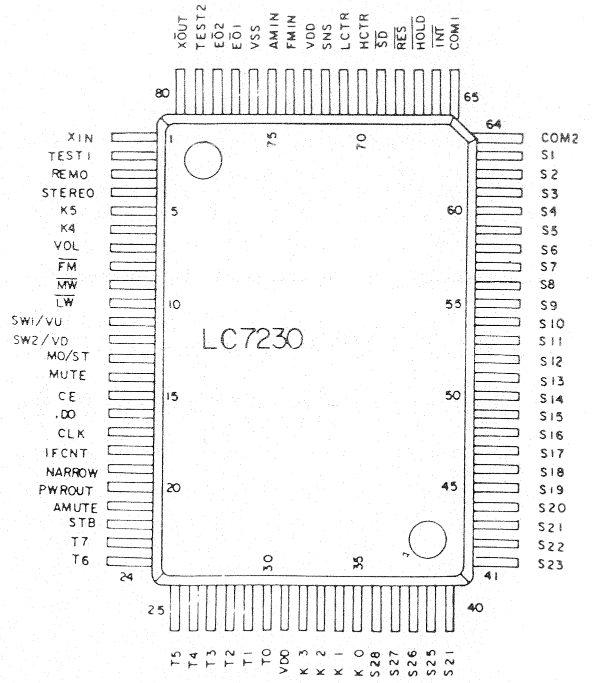
3) KSD882


949
D882-O
E C B

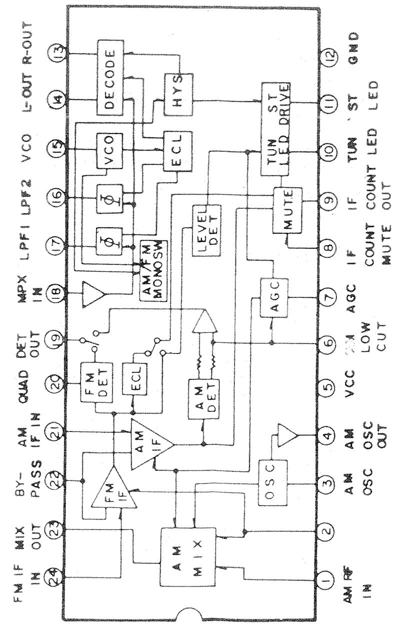
4) IN4148M/1SS53, IN4001, ZENER DIODE

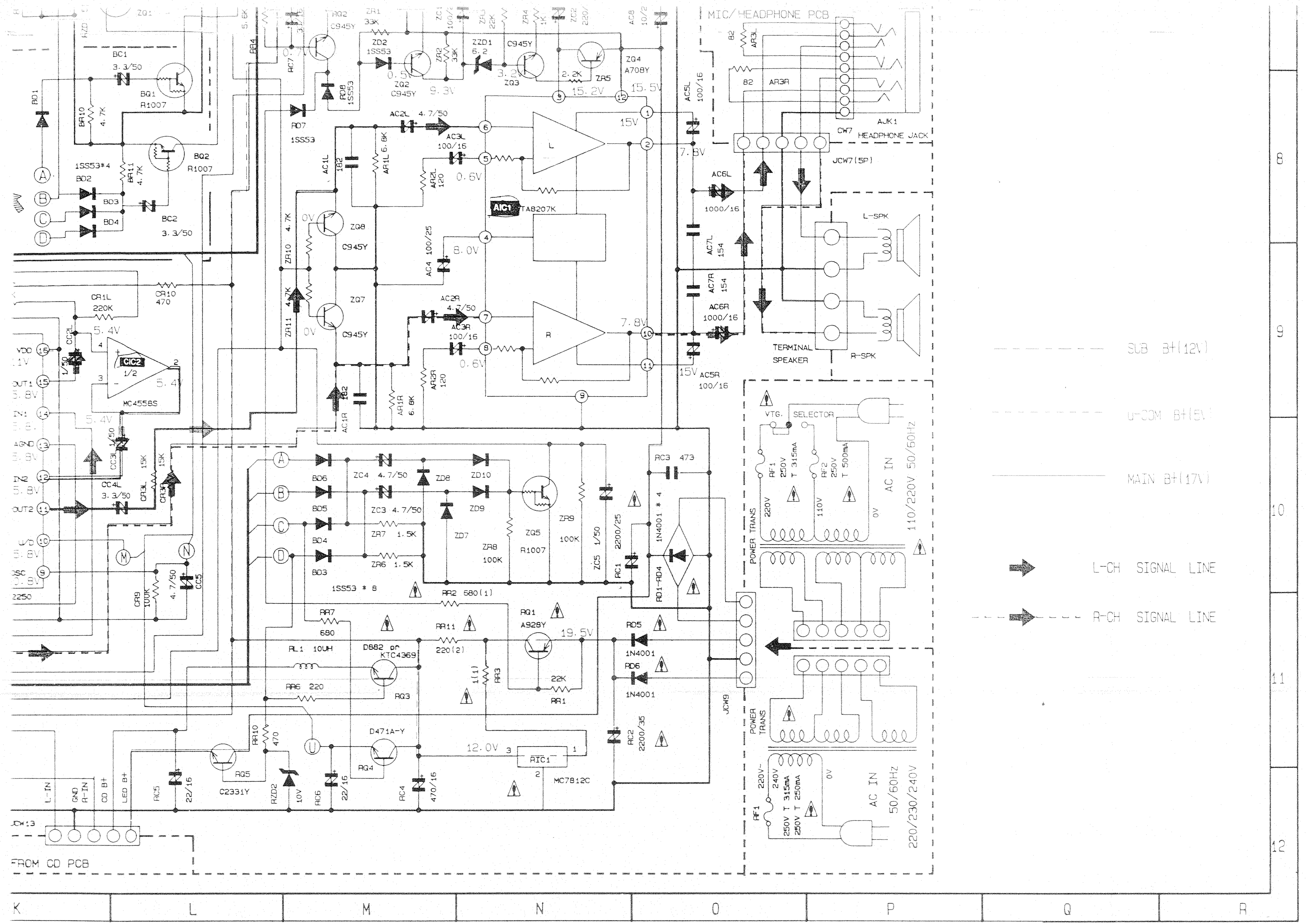

CATHODE (−)
ANODE (+)

● LC7230-8347 (MICOM) : UIC1

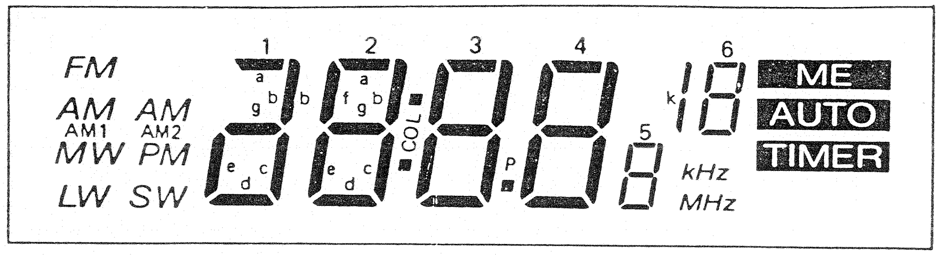

XOUT
TEST2
EO2
EO1
VSS
AMIN
FMIN
VDD
SNS
LCTR
HCTR
SD
RES
HOLD
INT
COM1
XIN
TEST1
REMO
STEREO
K5
K4
VOL
FM
MW
LW
SW1/VU
SW2/VD
MO/ST
MUTE
CE
DO
CLK
IFCNT
NARROW
PWROUT
AMUTE
STB
T7
T6
COM2
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
T5
T4
T3
T2
T1
T0
VDD
K3
K2
K1
K0
S28
S27
S26
S25
S24
LC7230
80
75
70
65
64
60
55
50
45
41
40
35
30
25
24
20
15
10
5
1

● TA8132N (TUNER IC) : IIC1


R-OUT
L-OUT
VCO
LPF2
LPF1
MPX IN
QUAD DET OUT
AM DET
BY-PASS
AM IF IN
MIX OUT
FM IF IN
GND
ST LED
TUN LED
IF COUNT LED
IF COUNT MUTE OUT
AGC
LOW CUT
VCC
AM OSC OUT
AM OSC
AM RF IN
DECODE
HYS
VCO
ECL
ST LED DRIVE
TUN LED DRIVE
LEVEL DET
MUTE
AM/FM MONO SW
AGC
FM DET
ECL
AM DET
AM IF
FM IF
OSC
AM MIX

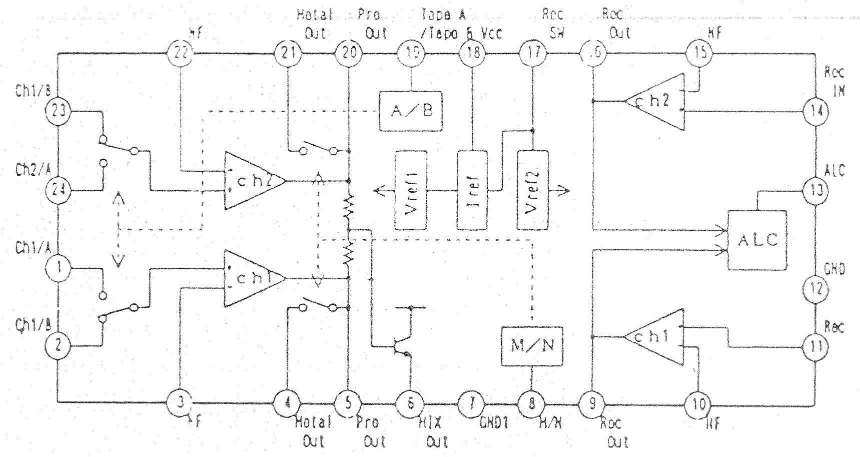

MIC/HEADPHONE PCB
HEADPHONE JACK
TA8207K
L-SPK
R-SPK
TERMINAL SPEAKER
SELECTOR
POWER TRANS
AC IN 110/220V 50/60Hz
AC IN 50/60Hz 220/230/240V
MC7812C
FROM CD PCB
SUB B+(12V)
U-COM B+(5V)
MAIN B+(17V)
L-CH SIGNAL LINE
R-CH SIGNAL LINE
K
L
M
N
O
P
Q
R
8
9
10
11
12

● LE-0605CP (TUNER LCD) : ULCD1

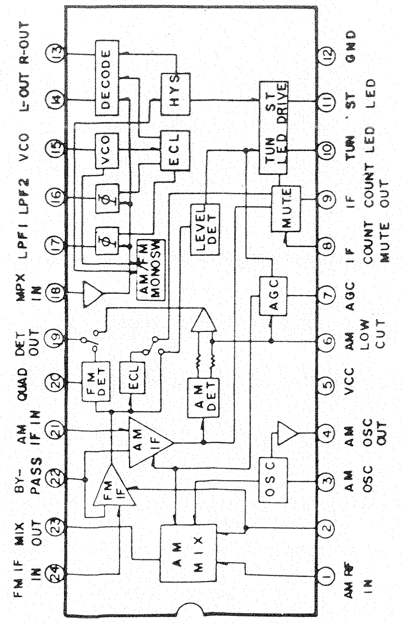

FM
AM AM
AM1 AM2
MW PM
LW SW
1
2
3
4
5
6
COL
P
k
kHz
MHz
ME
AUTO
TIMER

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COM1	COM1			AM 1	MW	SW	PM		B 1	C 1	F 2	E 2	D 2	A 2	F 3	E 3
COM2		COM2	FM			LW		AM2	ADE G1	COL	B 2	G 2	C 2		B 3	G 3
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
COM1	D 3	A 3	F 4	E 4	D 4	A 4	G 5	BE 5	KHz	E 6	D 6	TIME-R	A 6	ME	F 6	
COM2	C 3		B 4	G 4	C 4		ACD F 5		MHz P	G 6	C 6	K		AUTO	B 6	

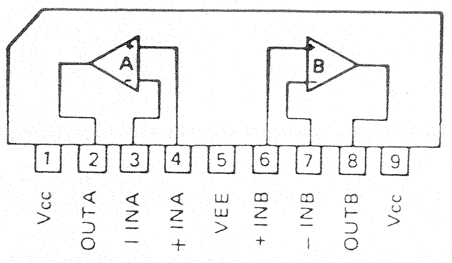
● TA8189N (PRE/REC AMP) : JIC1


NF
Hotal Out
Pro Out
Tape A /Tape B Vcc
Rec SW
Rec Out
NF
Rec IN
ALC
GND
Rec
Ch1/B
Ch2/A
Ch1/A
Ch1/B
A/B
Vref1
Iref
Vref2
ch2
ch1
ALC
M/N
NF
Hotal Out
Pro Out
MIX Out
GND1
H/N
Rec Out
NF

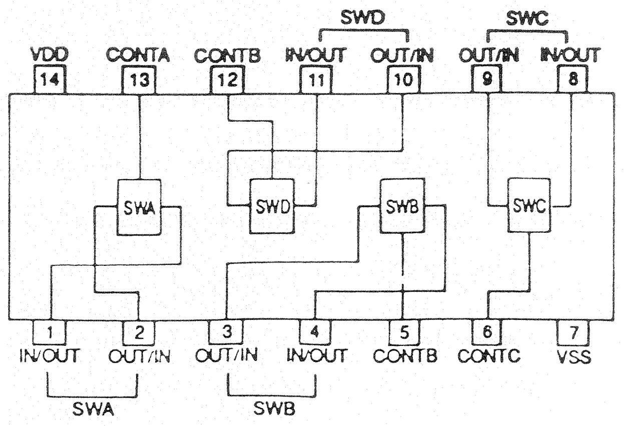
● TA8132N (TUNER IC) : IIC1


R-OUT
L-OUT
VCO
LPF2
LPF1
MPX IN
DET OUT
QUAD
AM IF IN
BY-PASS
MIX OUT
FM IF IN
GND
ST LED
TUN LED
IF COUNT OUT
IF COUNT MUTE
AGC
AM LOW CUT
VCC
AM OSC OUT
AM OSC
AM RF IN
DECODE
HYS
VCO
ECL
ST LED DRIVE
TUN LED
MUTE
LEVEL DET
AM/FM MONO SW
AGC
FM DET
ECL
AM DET
AM IF
FM IF
OSC
AM MIX

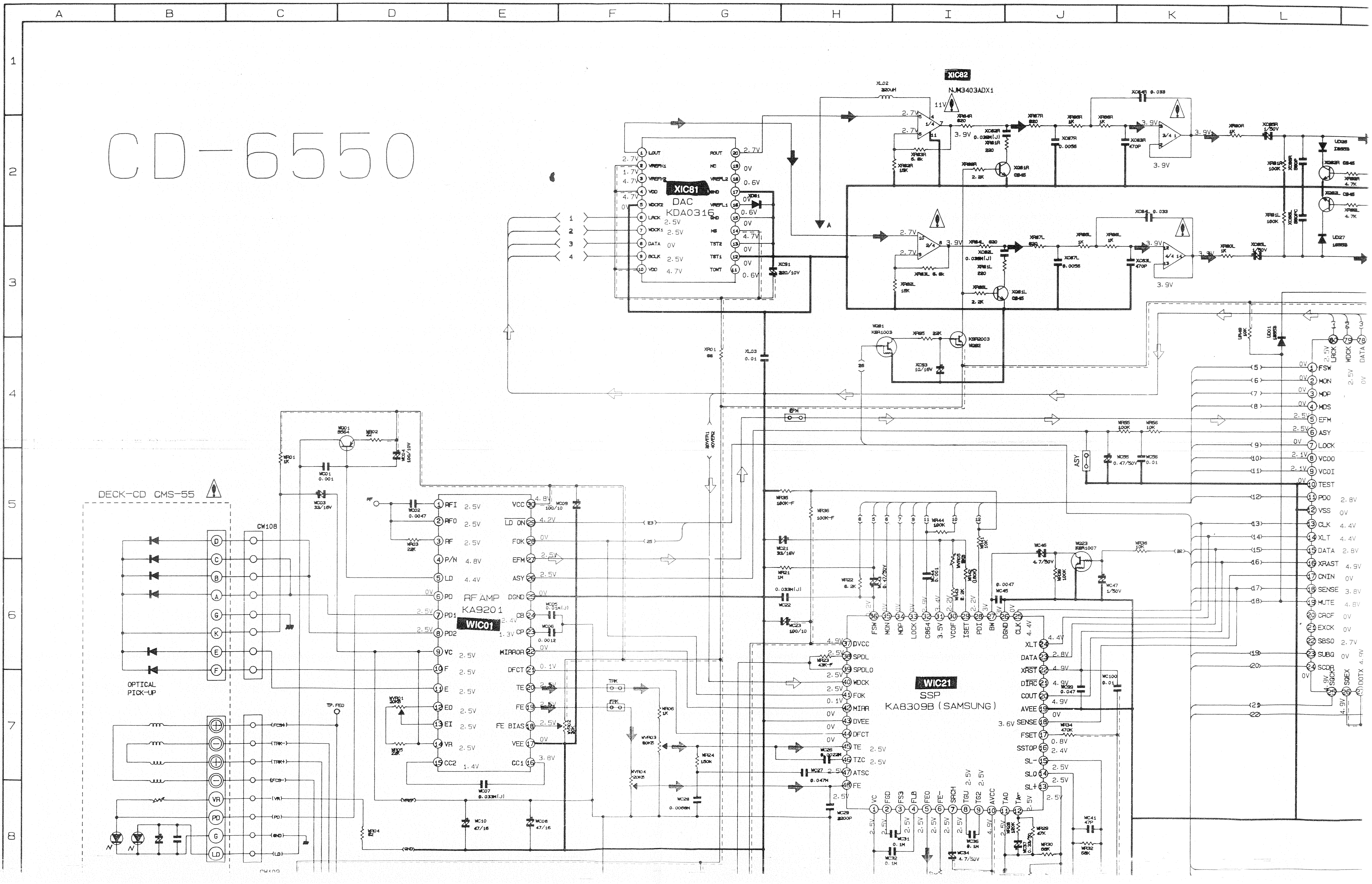
● MC4558S (OP AMP) : KIC1, QIC1, CIC2

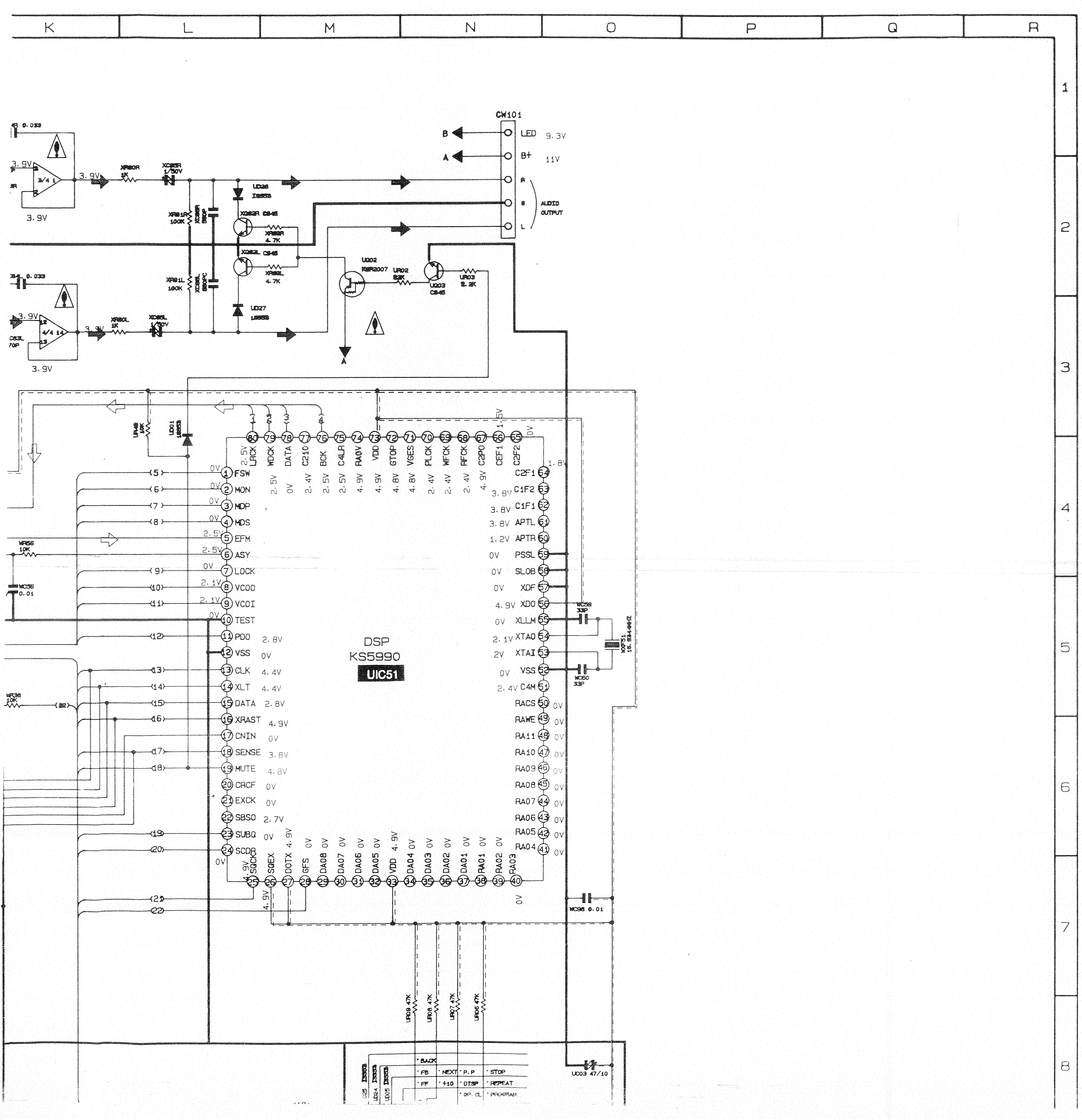

A
B
1
2
3
4
5
6
7
8
9
Vcc
OUTA
I INA
+INA
VEE
+INB
-INB
OUTB
Vcc

● LC4066 (SWITCH IC) : BIC1, 2


SWD
SWC
VDD
CONTA
CONTB
IN/OUT
OUT/IN
OUT/IN
IN/OUT
14
13
12
11
10
9
8
SWA
SWD
SWB
SWC
1
2
3
4
5
6
7
IN/OUT
OUT/IN
OUT/IN
IN/OUT
CONTB
CONTC
VSS
SWA
SWB

2. CD PLAYER SECTION


A
B
C
D
E
F
G
H
I
J
K
L
1
2
3
4
5
6
7
8
CD-6550
XIC81
DAC
KDA0316
XIC82
NJM3403ADX1
XL02 220uH
XC91 220/10V
XQ81R C945
XQ81L C945
XQ82R C945
XQ82L C945
XD26 1N553
XD27 1N553
WQ81 KSR1003
WQ82 KSR2003
DECK-CD CMS-55
OPTICAL PICK-UP
CW108
CW109
TP.FED
WQ01 B564
RF AMP
KA9201
WIC01
WIC21
SSP
KA8309B (SAMSUNG)
WQ23 KSR1007
EFM
ASY
TRK
FRK
LOUT
VREFH1
VREFH2
VDD
WDCK2
LRCK
WDCK1
DATA
BCLK
ROUT
NC
VREFL2
GND
VREFL1
MS
TST2
TST1
TOWT
RFI
RFO
RF
P/N
LD
PD
PD1
PD2
VC
F
E
EO
EI
VR
CC2
VCC
LD ON
FOK
EFM
ASY
DGND
CB
CP
MIRROR
DFCT
TE
FE
FE BIAS
VEE
CC1
FSW
MON
MDP
MDS
LOCK
VCOO
VCOI
TEST
PDO
VSS
CLK
XLT
XRAST
CNIN
SENSE
MUTE
CRCF
EXCK
SBSO
SUBQ
SCOR
SQCK
SQEX
LRCK
WDCK
DVCC
SPDL
SPDLO
FOK
MIRR
DVEE
DFCT
TE
TZC
ATSC
FE
CB64
ISET
VCOF
PDI
BW
DGND
XLT
DATA
XRST
DIRC
COUT
AVEE
SENSE
FSET
SSTOP
SL-
SLO
SL+
VC
FGD
FS3
FLB
FEO
FE-
SRCH
TGU
TG2
AVCC
TAO
TA-

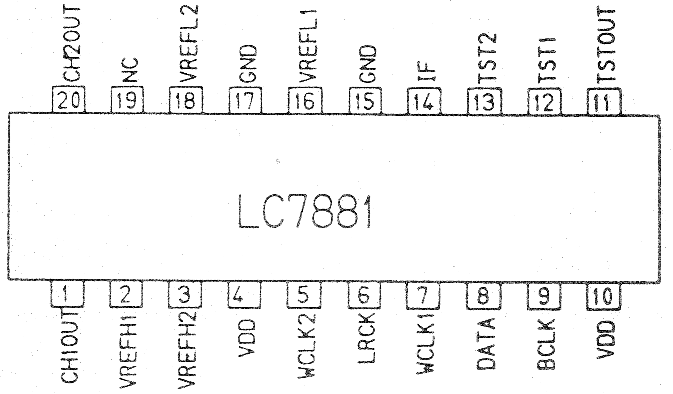

K
L
M
N
O
P
Q
R
1
2
3
4
5
6
7
8
CW101
LED 9.3V
B+ 11V
R
G
L
AUDIO OUTPUT
UD26 1SS53
XQ82R C945
XR82R 4.7K
XQ82L C945
XR82L 4.7K
UD27 1SS53
UQ02 KSR2007
UR02 82K
UQ03 C945
UR03 2.2K
XR81R 100K
XR81L 100K
XR80R 1K
XR80L 1K
XC85R 1/50V
XC85L 1/50V
3.9V
WR56 10K
WC36 0.01
UD01 1SS53
DSP
KS5990
UIC51
FSW
MON
MDP
MDS
EFM
ASY
LOCK
VCOO
VCOI
TEST
PDO
VSS
CLK
XLT
DATA
XRAST
CNIN
SENSE
MUTE
CRCF
EXCK
SBSO
SUBQ
SCOR
SQCK
SQEX
DOTX
GFS
DA08
DA07
DA06
DA05
VDD
DA04
DA03
DA02
DA01
RA01
RA02
RA03
RA04
RA05
RA06
RA07
RA08
RA09
RA10
RA11
RAWE
RACS
C4M
VSS
XTAI
XTAO
XLLM
XDO
XDF
SLOB
PSSL
APTR
APTL
C1F1
C1F2
C2F1
C2F2
CEF1
C2PO
RFCK
WFCK
PLCK
VGES
GTOP
VDD
RA0V
C4LR
BCK
C210
DATA
WDCK
LRCK
WC59 33P
WC50 33P
WX751 16.9344MHZ
WC98 0.01
UC03 47/10
UR09 47K
UR08 47K
UR07 47K
UR05 47K
BACK
FB
NEXT
P.P
STOP
FF
+10
DISP
REPEAT
OP. CL
PROGRAM

2. CD

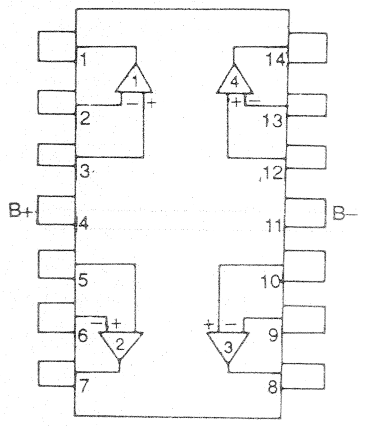
● IC	LOCATION
XIC81	G2
WIC61, 62	D9, D11
UIC51	M5
WIC01	E6
XIC82	I1
AIC51	H10
UIC31	N10
WIC21	I7

● TR	LOCATION
WQ01	D4
XQ82L, R,	L2
UQ03, XQ81L,R	N2, I3, I2
WQ92	I4
UQ01,WQ21,22	O9,J10,J10
WQ91	I4
WQ23	J5
UQ02	M2

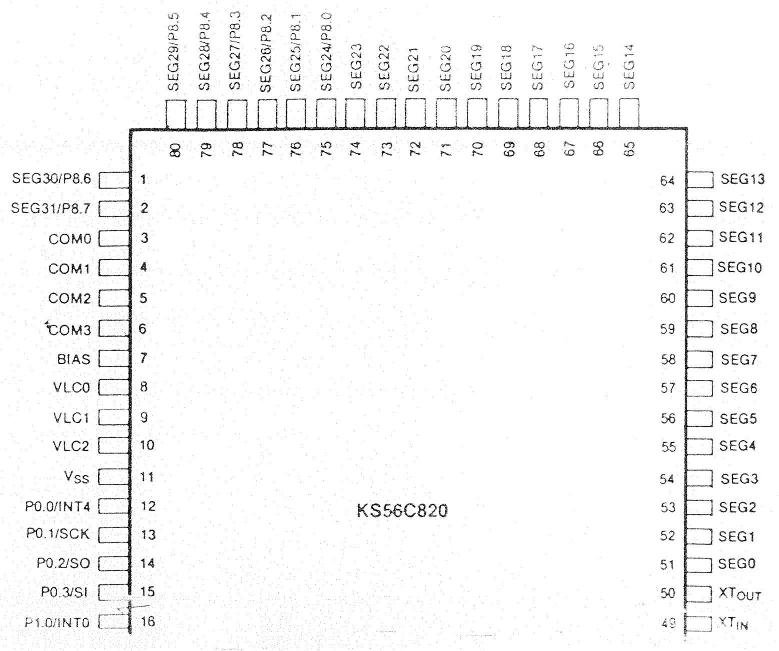
- LC7881 (D/A CONVERTOR) : XIC81
  * OPTIONAL

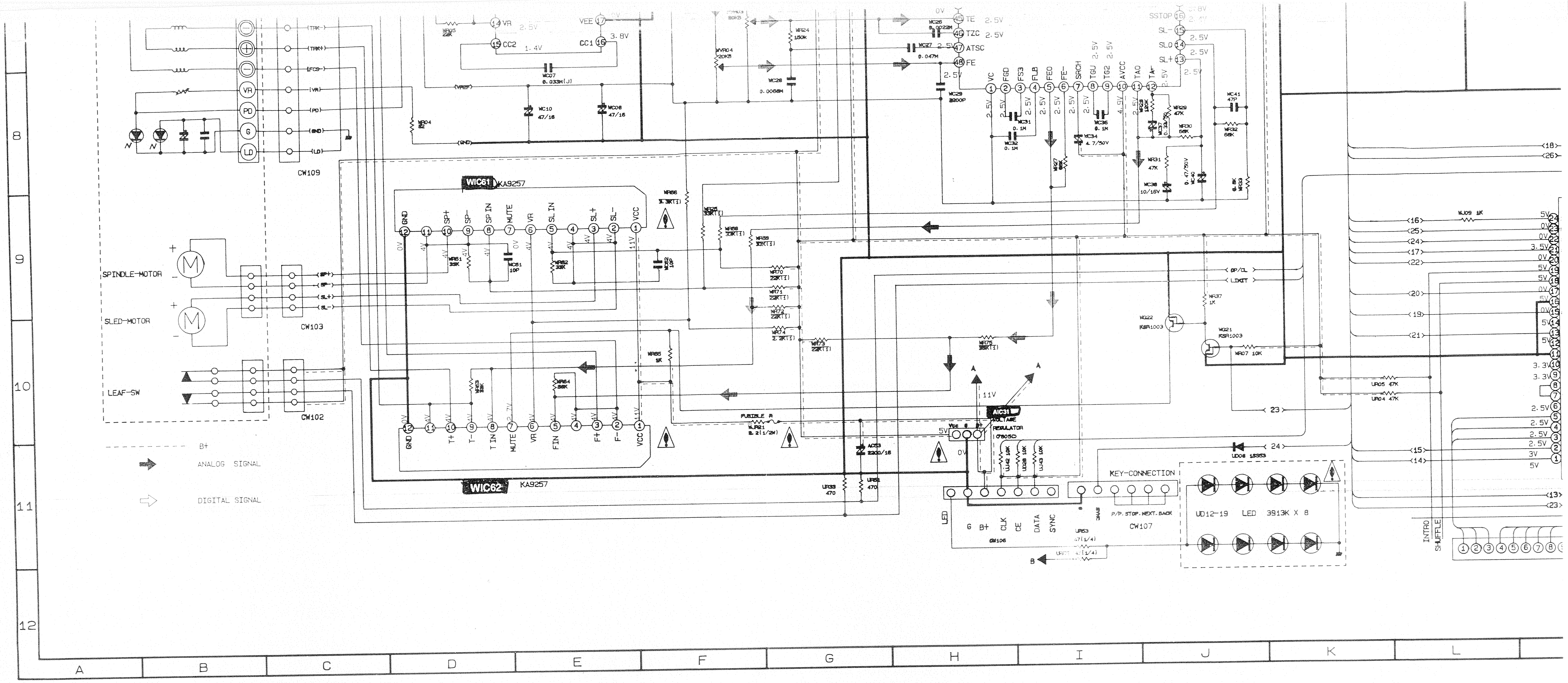

CH2OUT 20
NC 19
VREFL2 18
GND 17
VREFL1 16
GND 15
IF 14
TST2 13
TST1 12
TSTOUT 11
LC7881
1 CH1OUT
2 VREFH1
3 VREFH2
4 VDD
5 WCLK2
6 LRCK
7 WCLK1
8 DATA
9 BCLK
10 VDD

- KA2250(ELECT. VR IC): CIC1 2

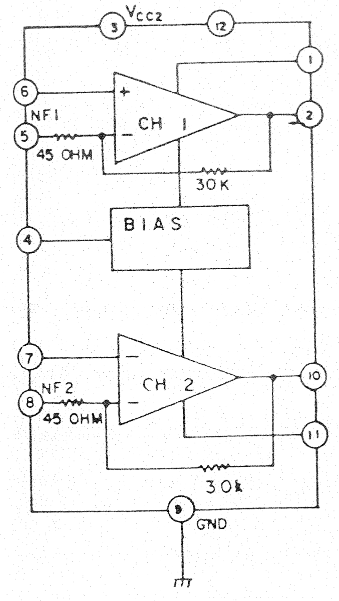

1
2
3
4
5
6
7
8
9
10
11
12
13
14
B+
B−

- KS56C820(MICOM) : UIC31

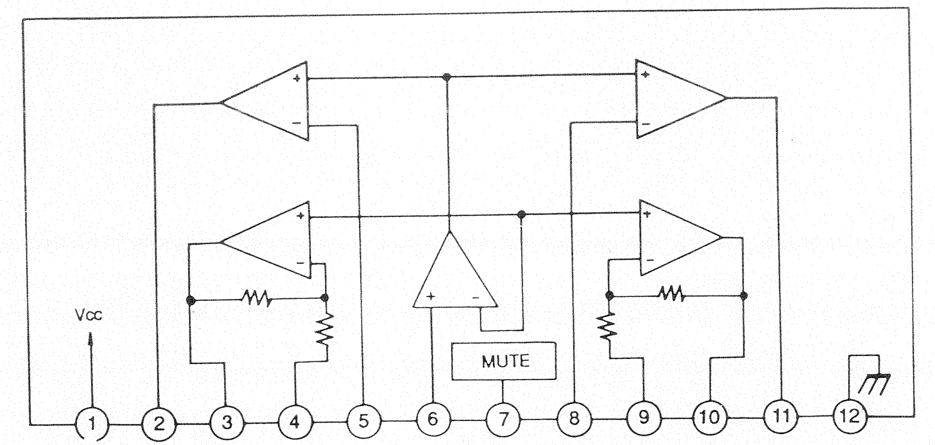

SEG29/P8.5
SEG28/P8.4
SEG27/P8.3
SEG26/P8.2
SEG25/P8.1
SEG24/P8.0
SEG23
SEG22
SEG21
SEG20
SEG19
SEG18
SEG17
SEG16
SEG15
SEG14
SEG30/P8.6 1
SEG31/P8.7 2
COM0 3
COM1 4
COM2 5
COM3 6
BIAS 7
VLC0 8
VLC1 9
VLC2 10
VSS 11
P0.0/INT4 12
P0.1/SCK 13
P0.2/SO 14
P0.3/SI 15
P1.0/INT0 16
KS56C820
64 SEG13
63 SEG12
62 SEG11
61 SEG10
60 SEG9
59 SEG8
58 SEG7
57 SEG6
56 SEG5
55 SEG4
54 SEG3
53 SEG2
52 SEG1
51 SEG0
50 XTOUT
49 XTIN


WIC61 KA9257
WIC62 KA9257
SPINDLE-MOTOR
SLED-MOTOR
LEAF-SW
CW109
CW103
CW102
CW106
CW107
KEY-CONNECTION
P/P. STOP. NEXT. BACK
AIC31 VOLTAGE REGULATOR 078O5C
FUSIBLE R
UD12-19 LED 3913K X 8
INTRO
SHUFFLE
GND
T+
T-
T IN
MUTE
VR
FIN
F+
F-
VCC
SP+
SP-
SP IN
SL IN
SL+
SL-
LED
G
B+
CLK
CE
DATA
SYNC
TE
TZC
ATSC
FE
SSTOP
VC
FGD
FS3
FLB
FEO
FE-
SRCH
TGU
TG2
AVCC
TAO
TA-
B+
ANALOG SIGNAL
DIGITAL SIGNAL
A
B
C
D
E
F
G
H
I
J
K
L
8
9
10
11
12

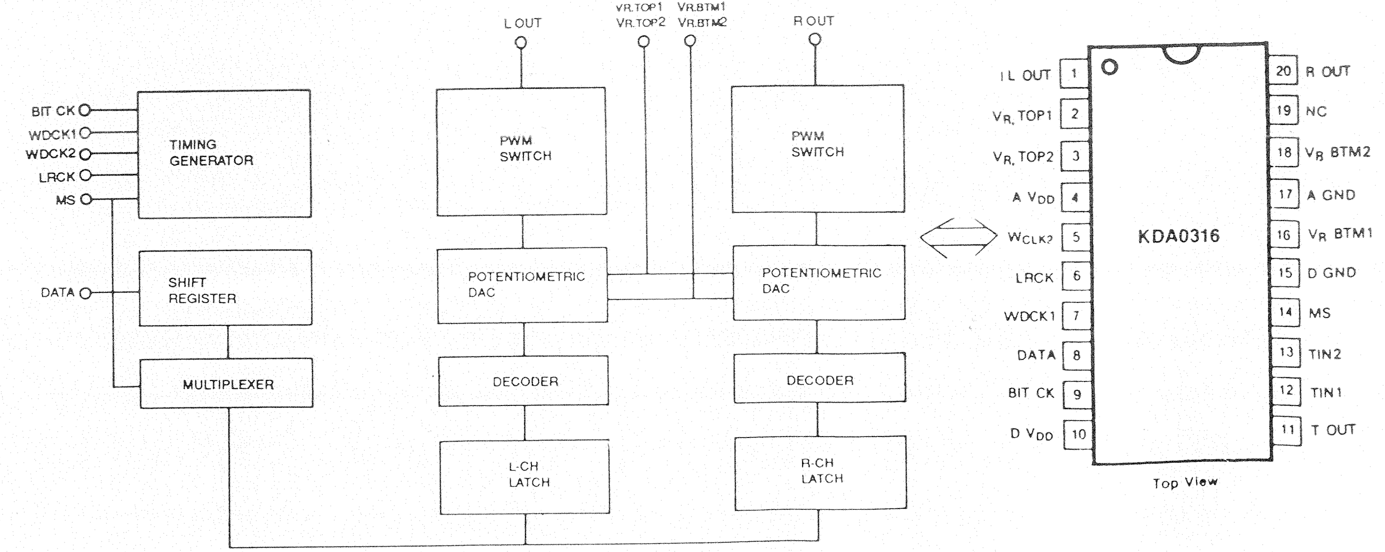
● AICI TA8207K (POWER IC) : AIC1


Vcc2
NF1
45 OHM
CH 1
30K
BIAS
NF2
45 OHM
CH 2
30k
GND
1
2
3
4
5
6
7
8
9
10
11
12

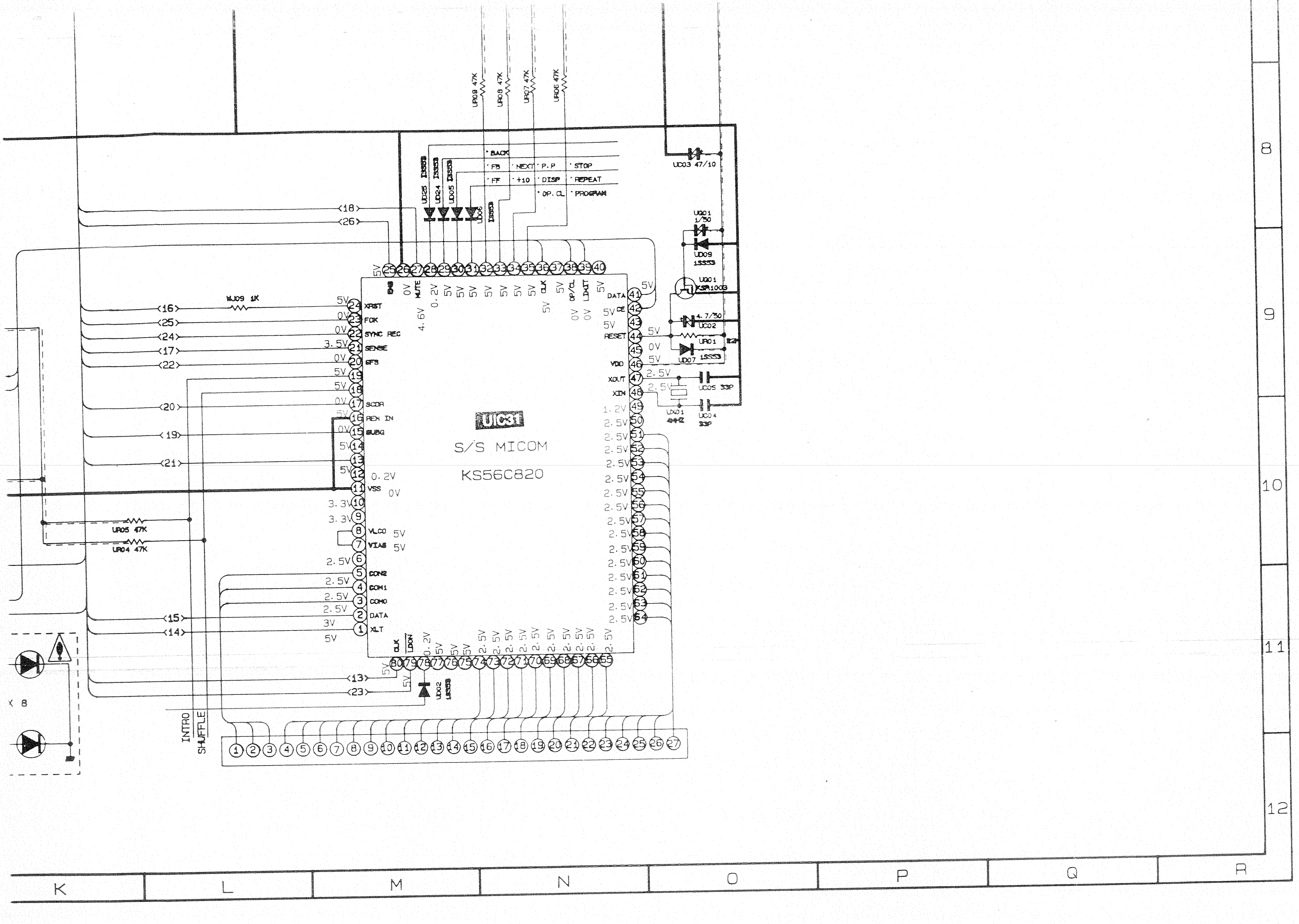
● KA9257 (BTL DRIVE IC) : WIC61, 62

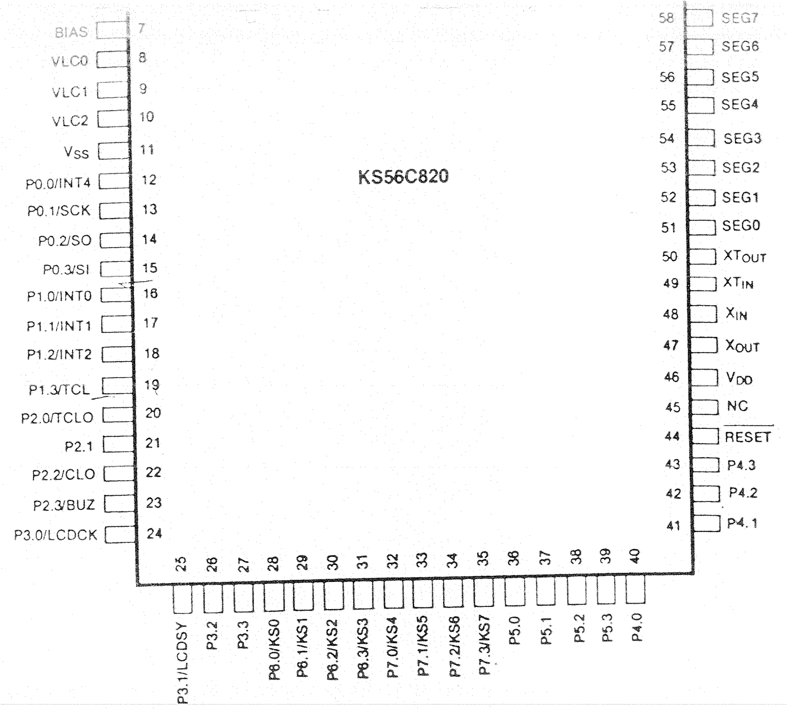

Vcc
MUTE
1
2
3
4
5
6
7
8
9
10
11
12

● KDA0316LD (D/A CONVERTOR) : XIC81
* OPTIONAL

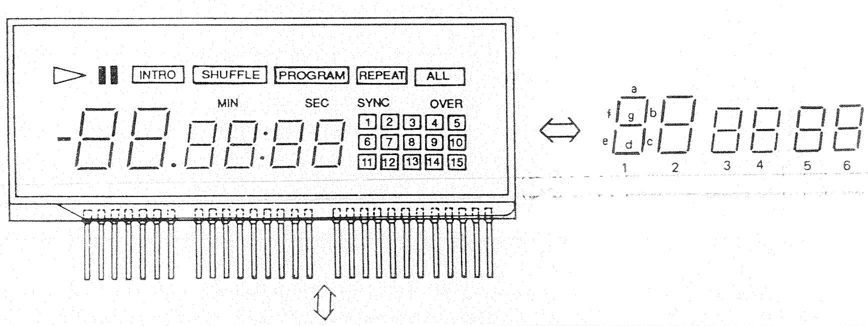

BIT CK
WDCK1
WDCK2
LRCK
MS
DATA
TIMING GENERATOR
SHIFT REGISTER
MULTIPLEXER
L OUT
VR TOP1
VR TOP2
VR BTM1
VR BTM2
R OUT
PWM SWITCH
POTENTIOMETRIC DAC
DECODER
L-CH LATCH
R-CH LATCH
KDA0316
Top View
1 L OUT
2 VR TOP1
3 VR TOP2
4 A VDD
5 WCLK?
6 LRCK
7 WDCK1
8 DATA
9 BIT CK
10 D VDD
20 R OUT
19 NC
18 VR BTM2
17 A GND
16 VR BTM1
15 D GND
14 MS
13 TIN2
12 TIN1
11 T OUT

● KA8309E

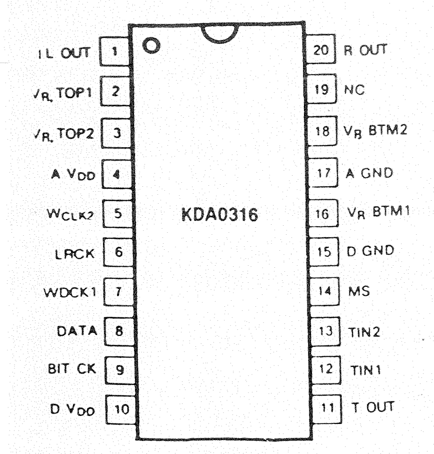

UIC31
S/S MICOM
KS56C820
XRST
FOK
SYNC REC
SENSE
EFB
SCOR
REN IN
SUBQ
VSS
VLCD
VBIAS
COM2
COM1
COM0
DATA
XLT
DATA
RESET
VDD
XOUT
XIN
BACK
FB
NEXT
P.P
STOP
FF
+10
DISP
REPEAT
OP.CL
PROGRAM
UC03 47/10
UQ01 KSR1003
UX01 4MHZ
UC05 33P
UC04 33P
UR05 47K
UR04 47K
UR09 1K
INTRO
SHUFFLE
8
9
10
11
12
K
L
M
N
O
P
Q
R


KS56C820
BIAS 7
VLC0 8
VLC1 9
VLC2 10
VSS 11
P0.0/INT4 12
P0.1/SCK 13
P0.2/SO 14
P0.3/SI 15
P1.0/INT0 16
P1.1/INT1 17
P1.2/INT2 18
P1.3/TCL 19
P2.0/TCLO 20
P2.1 21
P2.2/CLO 22
P2.3/BUZ 23
P3.0/LCDCK 24
P3.1/LCDSY 25
P3.2 26
P3.3 27
P6.0/KS0 28
P6.1/KS1 29
P6.2/KS2 30
P6.3/KS3 31
P7.0/KS4 32
P7.1/KS5 33
P7.2/KS6 34
P7.3/KS7 35
P5.0 36
P5.1 37
P5.2 38
P5.3 39
P4.0 40
41 P4.1
42 P4.2
43 P4.3
44 RESET
45 NC
46 VDD
47 XOUT
48 XIN
49 XTIN
50 XTOUT
51 SEG0
52 SEG1
53 SEG2
54 SEG3
55 SEG4
56 SEG5
57 SEG6
58 SEG7

● LE-0647AP (CD LCD) : LCD

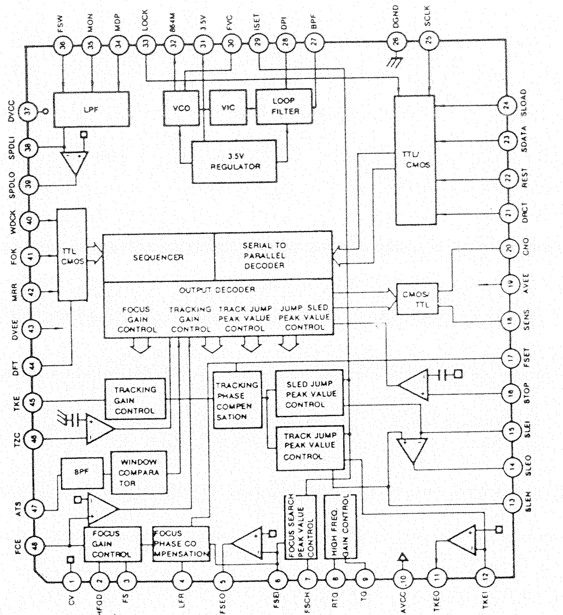

INTRO
SHUFFLE
PROGRAM
REPEAT
ALL
MIN
SEC
SYNC
OVER
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
a
b
c
d
e
f
g
1
2
3
4
5
6

No.	COM. 1	COM. 2	COM. 3	No.	COM. 1	COM. 2	COM. 3	No.	COM. 1	COM. 2	COM. 3
1	COM.1			11	PROGRAM	3f	3e	20	SYNC	6f	6e
2		COM. 2		12	3 a	3g	3d	21	6 a	6g	6d
3			COM. 3	13	MIN	3b	3c	22	OVER	6b	6c
4	INTRO	▷	▮▮	14	REPEAT	4f	4e	23	1	6	11
5	—	1f	1e	15	4 a	4g	4d	24	2	7	12
6	1 a	1g	1d	16	:	4b	4c	25	3	8	13
7		1b	1c	17	ALL	5f	5e	26	4	9	14
8	SHUFFLE	2f	2e	18	5 a	5g	5d	27	5	10	15
9	2 a	2g	2d	19	SEC	5b	5c	28	N C		
10	•	2b	2c								

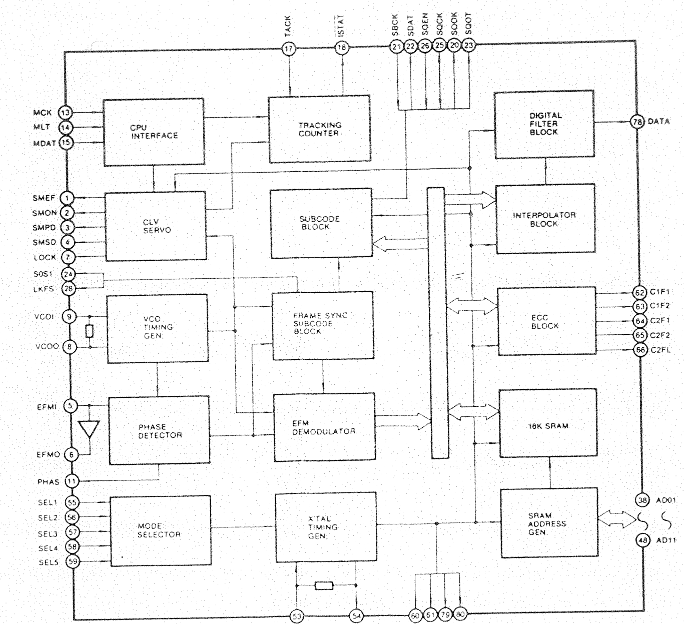

KDA0316
L OUT 1
VR TOP1 2
VR TOP2 3
A VDD 4
WCLK 5
LRCK 6
WDCK1 7
DATA 8
BIT CK 9
D VDD 10
11 T OUT
12 TIN1
13 TIN2
14 MS
15 D GND
16 VR BTM1
17 A GND
18 VR BTM2
19 NC
20 R OUT

Top View

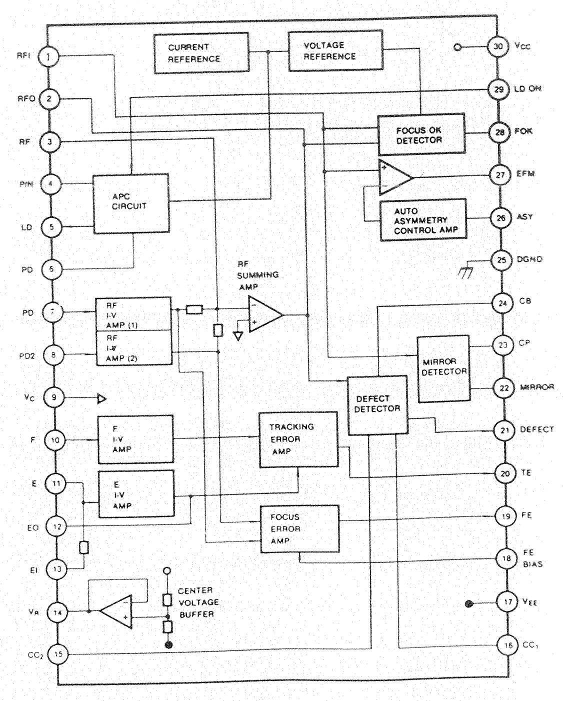
● KA8309B(SSP SERVO SIGNAL PROCESSOR IC): WIC21


LPF
VCO
VIC
LOOP FILTER
3.5V REGULATOR
TTL CMOS
SEQUENCER
SERIAL TO PARALLEL DECODER
OUTPUT DECODER
FOCUS GAIN CONTROL
TRACKING GAIN CONTROL
TRACK JUMP PEAK VALUE CONTROL
JUMP SLED PEAK VALUE CONTROL
CMOS TTL
TRACKING GAIN CONTROL
TRACKING PHASE COMPEN SATION
SLED JUMP PEAK VALUE CONTROL
TRACK JUMP PEAK VALUE CONTROL
BPF
WINDOW COMPARA TOR
FOCUS GAIN CONTROL
FOCUS PHASE CO MPENSATION
FOCUS SEARCH PEAK VALUE CONTROL
HIGH FREQ GAIN CONTROL

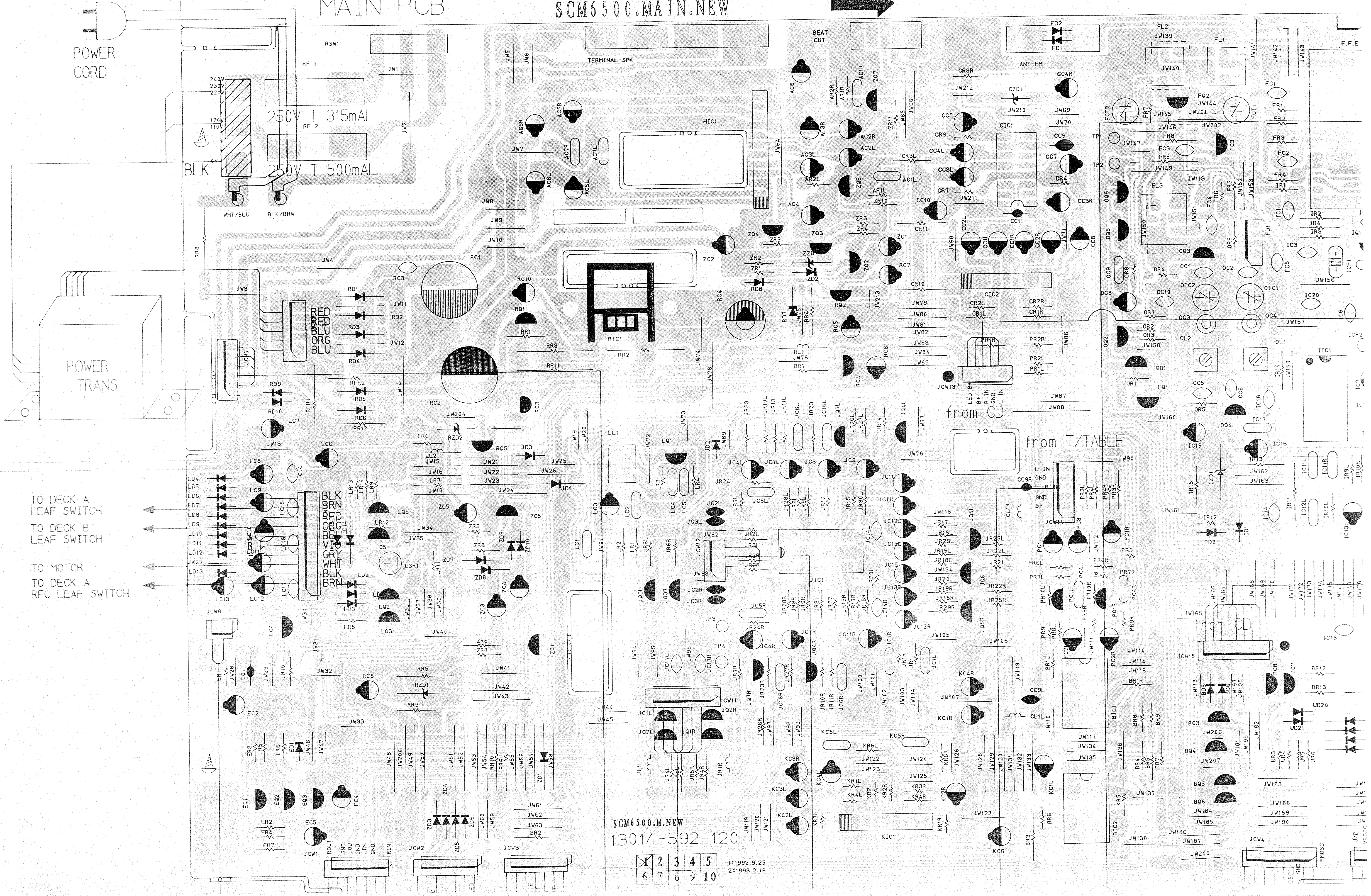
● KS5990/KS59910 (DSP : DIGITAL SIGNAL PROCESSOR IC) : UIC51


CPU INTERFACE
TRACKING COUNTER
DIGITAL FILTER BLOCK
CLV SERVO
SUBCODE BLOCK
INTERPOLATOR BLOCK
VCO TIMING GEN
FRAME SYNC SUBCODE BLOCK
ECC BLOCK
PHASE DETECTOR
EFM DEMODULATOR
16K SRAM
MODE SELECTOR
XTAL TIMING GEN
SRAM ADDRESS GEN
MCK
MLT
MDAT
SMEF
SMON
SMPD
SMSD
LOCK
SOS1
LKFS
VCOI
VCOO
EFMI
EFMO
PHAS
SEL1
SEL2
SEL3
SEL4
SEL5
DATA
C1F1
C1F2
C2F1
C2F2
C2FL
AD01
AD11

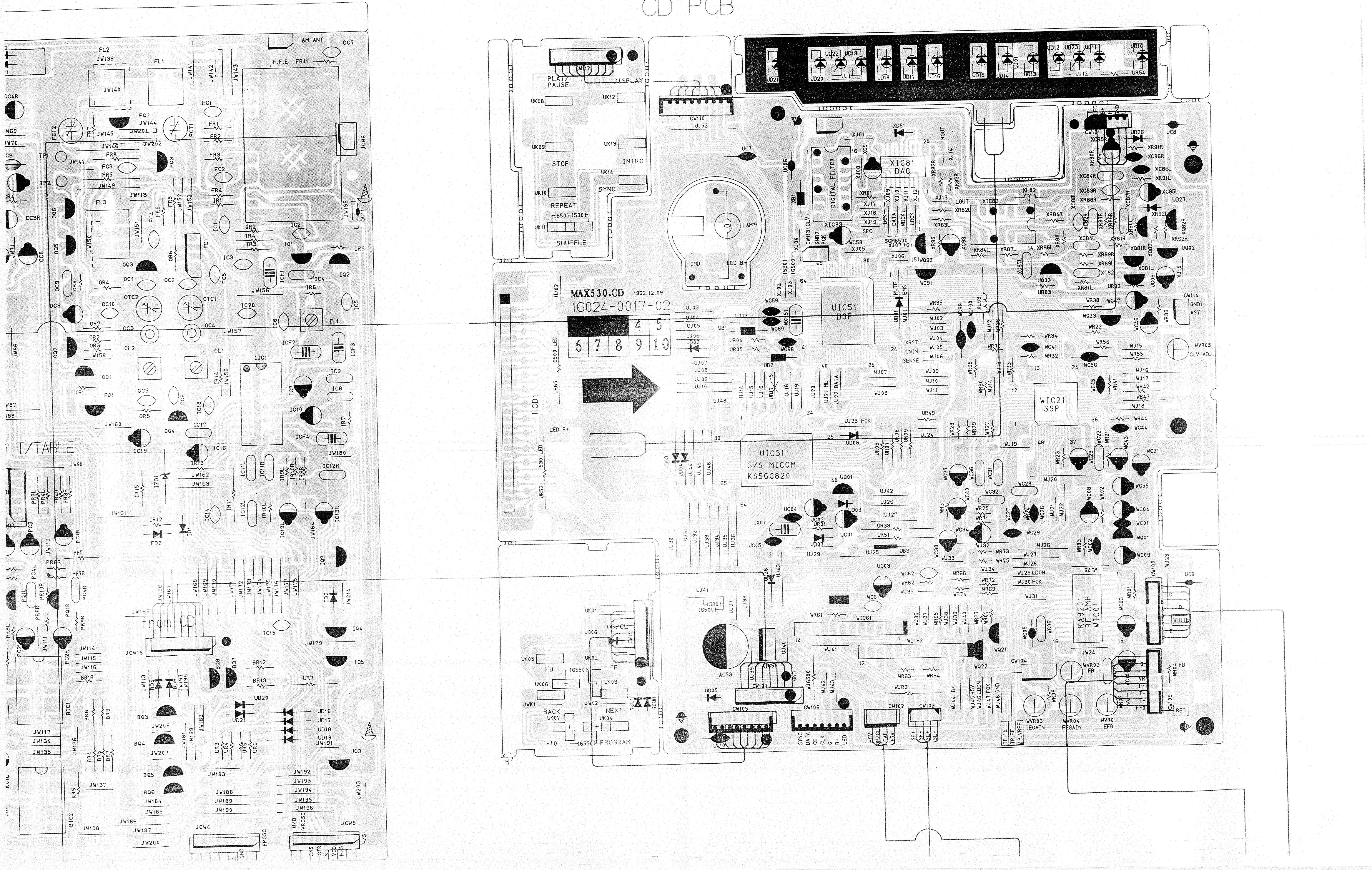
● KA9201 (RF AMP IC) : WIC01


CURRENT REFERENCE
VOLTAGE REFERENCE
FOCUS OK DETECTOR
APC CIRCUIT
AUTO ASYMMETRY CONTROL AMP
RF SUMMING AMP
RF I-V AMP (1)
RF I-V AMP (2)
MIRROR DETECTOR
DEFECT DETECTOR
TRACKING ERROR AMP
F I-V AMP
E I-V AMP
FOCUS ERROR AMP
CENTER VOLTAGE BUFFER
RFI 1
RFO 2
RF 3
PN 4
LD 5
PD 6
PD1 7
PD2 8
Vc 9
F 10
E 11
EO 12
EI 13
VR 14
CC2 15
16 CC1
17 VEE
18 FE BIAS
19 FE
20 TE
21 DEFECT
22 MIRROR
23 CP
24 CB
25 DGND
26 ASY
27 EFM
28 FOK
29 LD ON
30 VCC

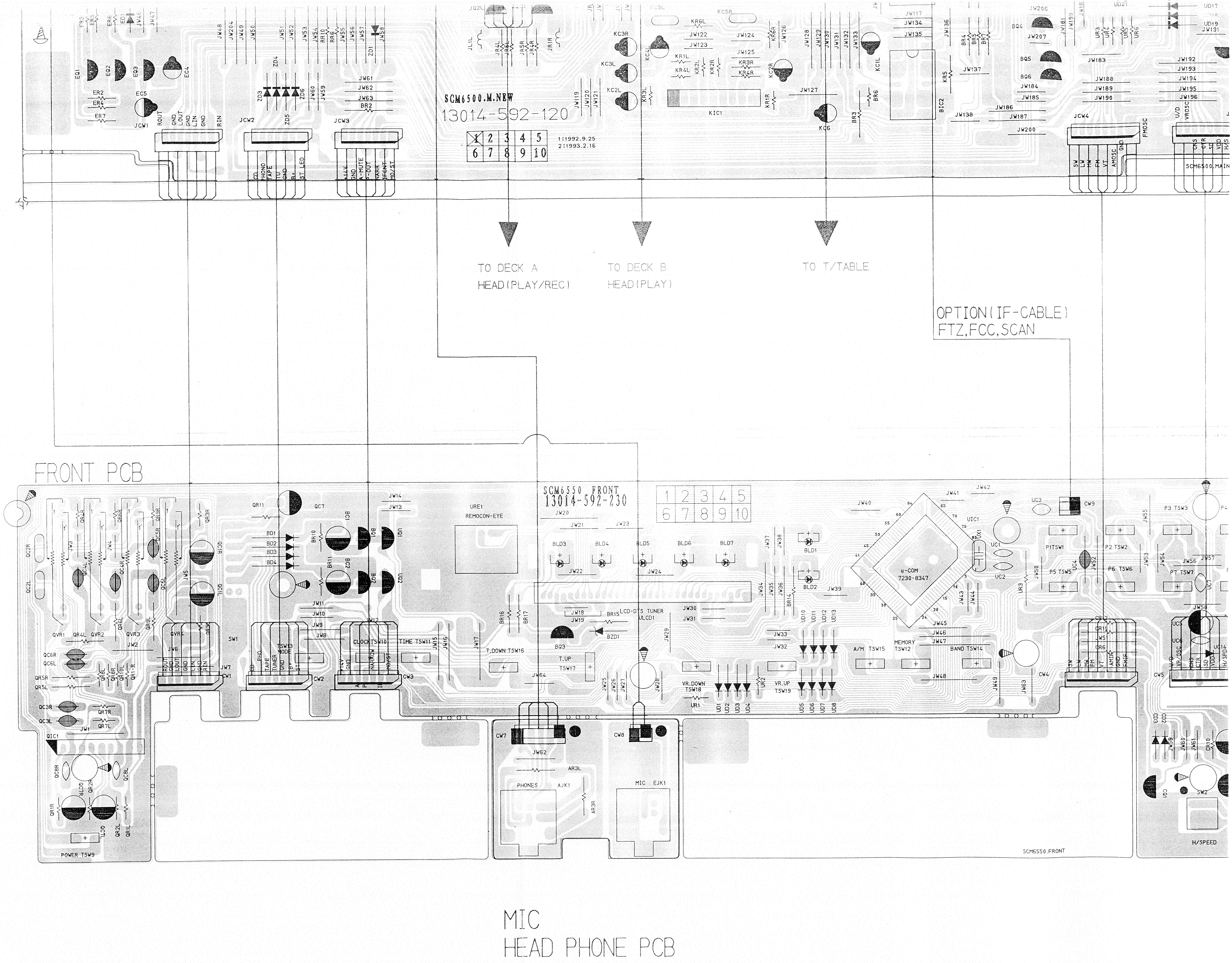
■ WIRING DIAGRAM

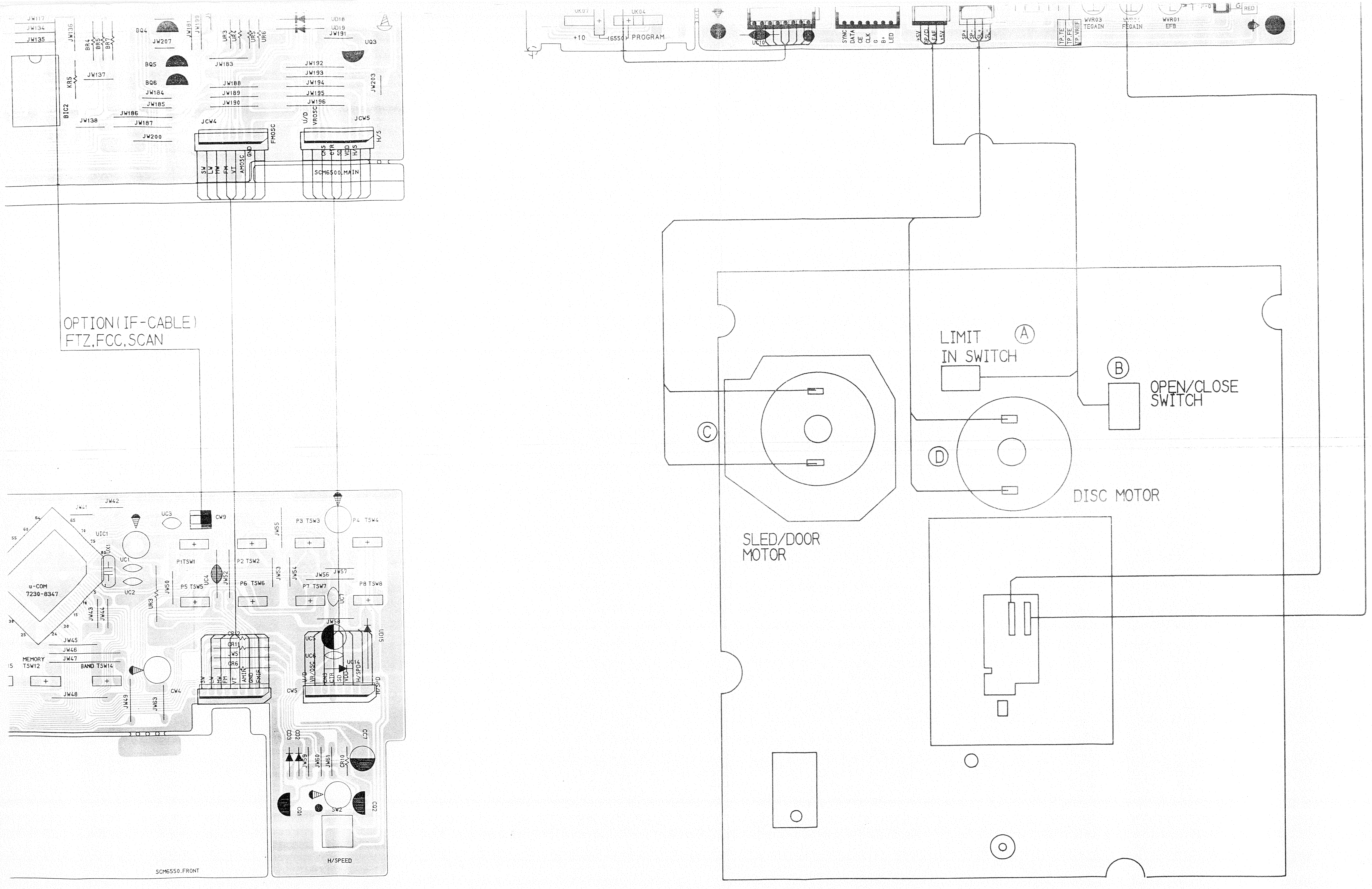

MAIN PCB
SCM6500.MAIN.NEW
POWER CORD
POWER TRANS
RSW1
RF 1
RF 2
240V
230V
220V
120V
110V
0V
250V T 315mAL
250V T 500mAL
BLK
WHT/BLU
BLK/BRW
TERMINAL-SPK
BEAT CUT
ANT-FM
HIC1
RIC1
RED
RED
BLU
ORG
BLU
BLK
BRN
RED
ORG
VIO
GRY
WHT
BLK
BRN
TO DECK A LEAF SWITCH
TO DECK B LEAF SWITCH
TO MOTOR
TO DECK A REC LEAF SWITCH
from CD
from T/TABLE
from CD
L IN
GND
GND
B+
LED B+
B+
R IN
GND
L IN
F.F.E
SCM6500.M.NEW
13014-592-120
1:1992.9.25
2:1993.2.16
1 2 3 4 5
6 7 8 9 10
ROUT
GND
LOUT
GND
LIN
GND
RIN
JCW1
JCW2
JCW3
JCW4
FMOSC
OSC
GND
U/D
VROSC

CD PCB



MAX530.CD
1992.12.09
16024-0017-02
UIC51
DSP
UIC31
S/S MICOM
KS56C820
WIC21
SSP
XIC81
DAC
DIGITAL FILTER
KA9201
RF AMP
WIC01
LCD1
LAMP1
LED B+
GND
PLAY/
PAUSE
DISPLAY
STOP
INTRO
SYNC
REPEAT
SHUFFLE
FB
FF
BACK
NEXT
PROGRAM
OP/CL
CLV ADJ.
WVR01
EFB
WVR03
TEGAIN
WVR04
FEGAIN
WVR05
WHITE
RED
CW101
CW102
CW103
CW104
CW105
CW106
CW107
CW108
CW109
CW110
CW111
CW112
CW114
SYNC
DATA
CE
CLK
G
B+
LED
+5V
OP/CL
-5V
SP+
SP-
TP.TE
TP.FE
TP.VREF
XRST
CNIN
SENSE
MUTE
EMS
ROUT
LOUT
UJ21 MLT
UJ22 DATA
UJ23 FOK
WJ29 LDON
WJ30 FOK
WJ45 +5V
WJ46 LDON
WJ47 FOK
WJ48 GND
6500 LED
530 LED
AM ANT
F.F.E
T/TABLE
from CD
JCW4
JCW5
JCW6
JCW15
FMOSC
U/D
VROSC
H/S
IIC1
IC20
IL1
AC53


SCM6500.M.NEW
13014-592-120
1 2 3 4 5
6 7 8 9 10
1:1992.9.25
2:1993.2.16
JCW1
JCW2
JCW3
JCW4
ROUT
GND
LOUT
GND
LIN
GND
RIN
TO DECK A
HEAD(PLAY/REC)
TO DECK B
HEAD(PLAY)
TO T/TABLE
OPTION(IF-CABLE)
FTZ,FCC,SCAN
SCM6500.MAIN
FRONT PCB
SCM6550 FRONT
13014-592-230
1 2 3 4 5
6 7 8 9 10
REMOCON-EYE
URE1
LCD-DTS TUNER
ULCD1
u-COM
7230-8347
UIC1
CLOCK TSW10
TIME TSW11
T.DOWN TSW16
T.UP
TSW17
VR.DOWN
TSW18
VR.UP
TSW19
A/M TSW15
MEMORY
TSW12
BAND TSW14
P1TSW1
P2 TSW2
P3 TSW3
P5 TSW5
P6 TSW6
P7 TSW7
POWER TSW9
SW1
SW2
CW1
CW2
CW3
CW4
CW5
CW7
CW8
CW9
PHONES
AJK1
MIC
EJK1
H/SPEED
SCM6550.FRONT
MIC
HEAD PHONE PCB


SCM6500.MAIN
JCW4
JCW5
SW
LW
MW
FM
VT
AMOSC
GND
FMOSC
U/D
VROSC
CNS
CTR
SD
VDD
H/S
BIC2
BQ4
BQ5
BQ6
OPTION(IF-CABLE)
FTZ,FCC,SCAN
u-COM
7230-8347
UIC1
UC1
UC2
UC3
CW9
CW4
CW5
P1TSW1
P2 TSW2
P3 TSW3
P4 TSW4
P5 TSW5
P6 TSW6
P7 TSW7
P8 TSW8
MEMORY
TSW12
BAND TSW14
SW2
H/SPEED
SCM6550.FRONT
+10
PROGRAM
UC10
SYNC
DATA
CE
CLK
G
B+
LED
+5V
SP+
SP-
SL+
SL-
TP.TE
TP.FE
TP.VREF
WVR03
TEGAIN
FEGAIN
WVR01
EFB
RED
LIMIT
IN SWITCH
Ⓐ
Ⓑ
OPEN/CLOSE
SWITCH
Ⓒ
Ⓓ
SLED/DOOR
MOTOR
DISC MOTOR

CD DECK ASSY

(BOTTOM SIDE)